Original Documents, Pictures, Drawings and Screen Captures

Scanned by a G3 Facsimile Machine or Optical Scanner or Screen Capture Methods **(B)**

Connected to The Inventions Adjunct Device or PC Card: **(C)**
For a Fax Machine and via Fax Modem and Circuitry that Generates Central Office Dial Tone or by Standard Auxillary Port Means-to Include USB or by Wireless Means-to include Infrared

Connected to A Packet Switched Network via Data Modem; to include Cable, Cellular and Satellite -Resident or Remote; and Standard RJ 11 Phone Line Connector or RJ 45 LAN Connector or Cable Connector or CDMA/TDMA Cellular Connection or Satellite Up Link/ Down Link Connection **(D)**

Receive Images Generated by the Fax Machine or Optical Scanner or Screen Capture Method **(E)**

Store Images in Memory Buffer(s) **(F)**

Invoke Hardware and Software process to Remove Inferior CODEC's or OCR scan codes Restoring images to Native Scanned Image State **(G)**

Store Native Image Data In Memory Buffer(s) **(H)**

Compress Native Image Data with Multi Dimensional CODEC's Resident in Eproms and ASIC. Specific CODEC's to include but are not limited to: LZW-TIFF & TIFF-FX, JPEG & JPEG, 2000, MPG, Streaming Media, Harmonic Matrix Multiplication, **(I)**

Store in Memory Buffer(s) **(J)**

Obtain Unique Electronic e-mail or IP Destination Address and public or secret encryption key for Intended Recipient from address table and key ting resident in flash memory or remotely from a data base and remote key server **(K)**

Associate Phone Number Dialed By The Fax Machine or Other Remote Device with the e-mail or IP destination address or if null Confirm destination address via device per **(K)** or PC keyboard

Store in Memory Buffer(s) **(N)**

If encryption is selected by user or by default, encrypt stored buffer of newly compressed Image data with encryption algorithm(s) stored in EPROM and/or resident in ASIC to include but not limited to
S-MIME, S_HTTP, SXML, SET, Rijndael, PGP, DES Vernam ciphers and RSA. Additionally the multi dimesional codecs of the harmonic matrix muliplication compression schemes available in this invention can be adapted to perform non-recoverable-disappearing key encryption. **(O)**

Store in Memory Buffer(s) **(P)**

Invoke message encapsulation protocols stored in EPROM(s), to include but not limited to IP, TCP, UDP ,SMTP, POP3, MIME & extended MIME message types, IMAP, HTML and XML and encapsulate entire previous memory buffer(s) within appropriate protocol stacks. **(Q)**

Store in Memory Buffer(s) **(R)**

Obtain users device, terrestrial location coordinates and/or biometrics from the device hardware and software. Hash the information to create a reflective non original information data map. **(S)**

Store hashed information in Memory Buffer(s) **(T)**

Generate message headers in accordance with selected protocols and may include non-standard x headers to identify specific transport, identity and receipt verification processes and other routing and sending/ reception requirements. **(U)**

Send entire now completed processed contents of the previous buffer(s) to intended recipient utilizing appropriate protocols over any terrestrial or satellite communication network. Retain entire contents of memory buffer(s) and message headers for a specified period of time. Entire or partial memory buffer(s) contents may be permantly archived, on premise or remotely, utilizing standard achieving media and processes. **(U)**

The reception process is the direct inverse of the sending process above for a stand alone G3 facsimile machine and in the reception mode **(A)** above may include direct printers/plotters or any other message media rendering equipment, for example 3 dimensional mold making machines.

Figure 1

TOTT90" 8E2Z7860

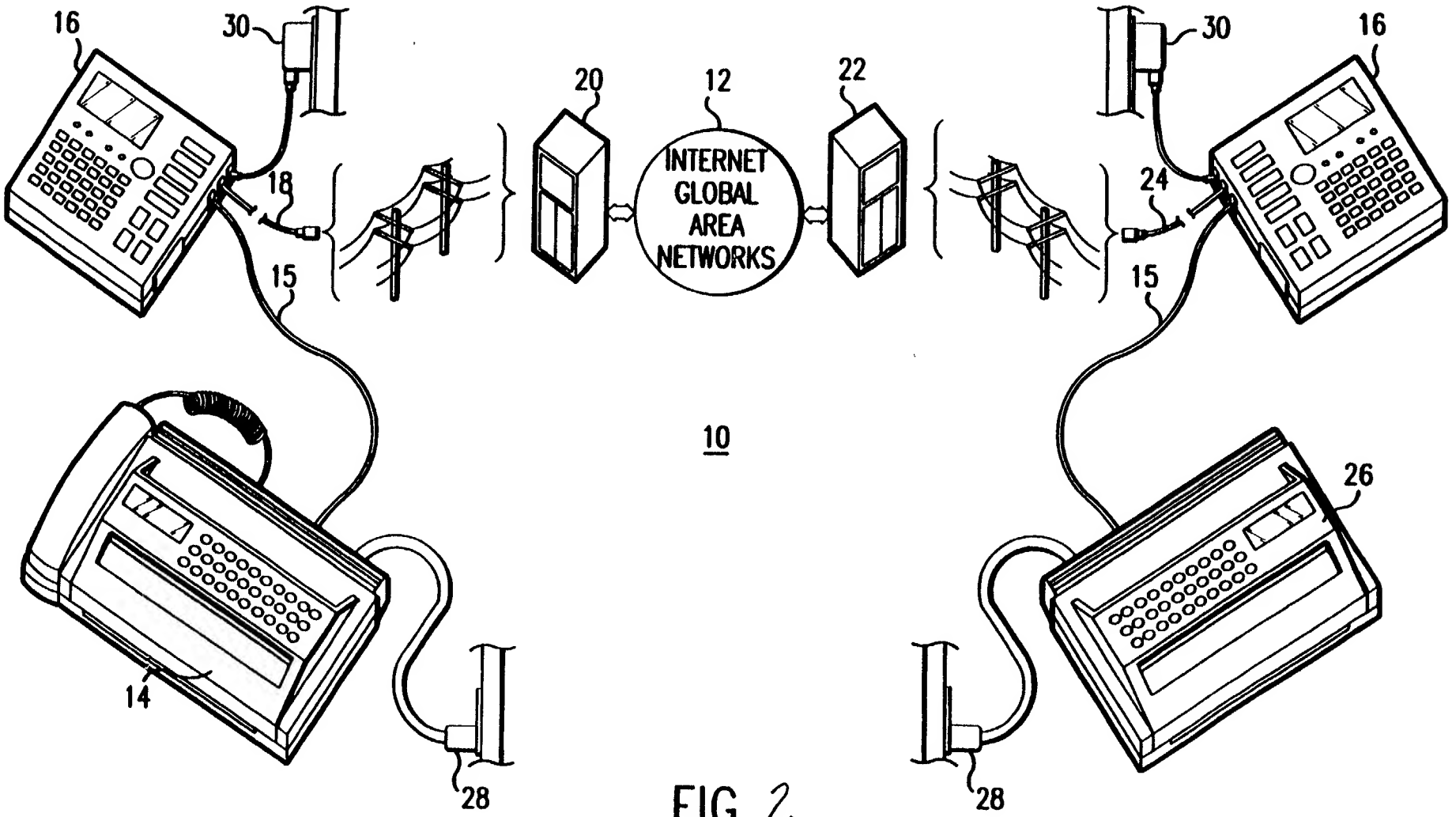


FIG. 2

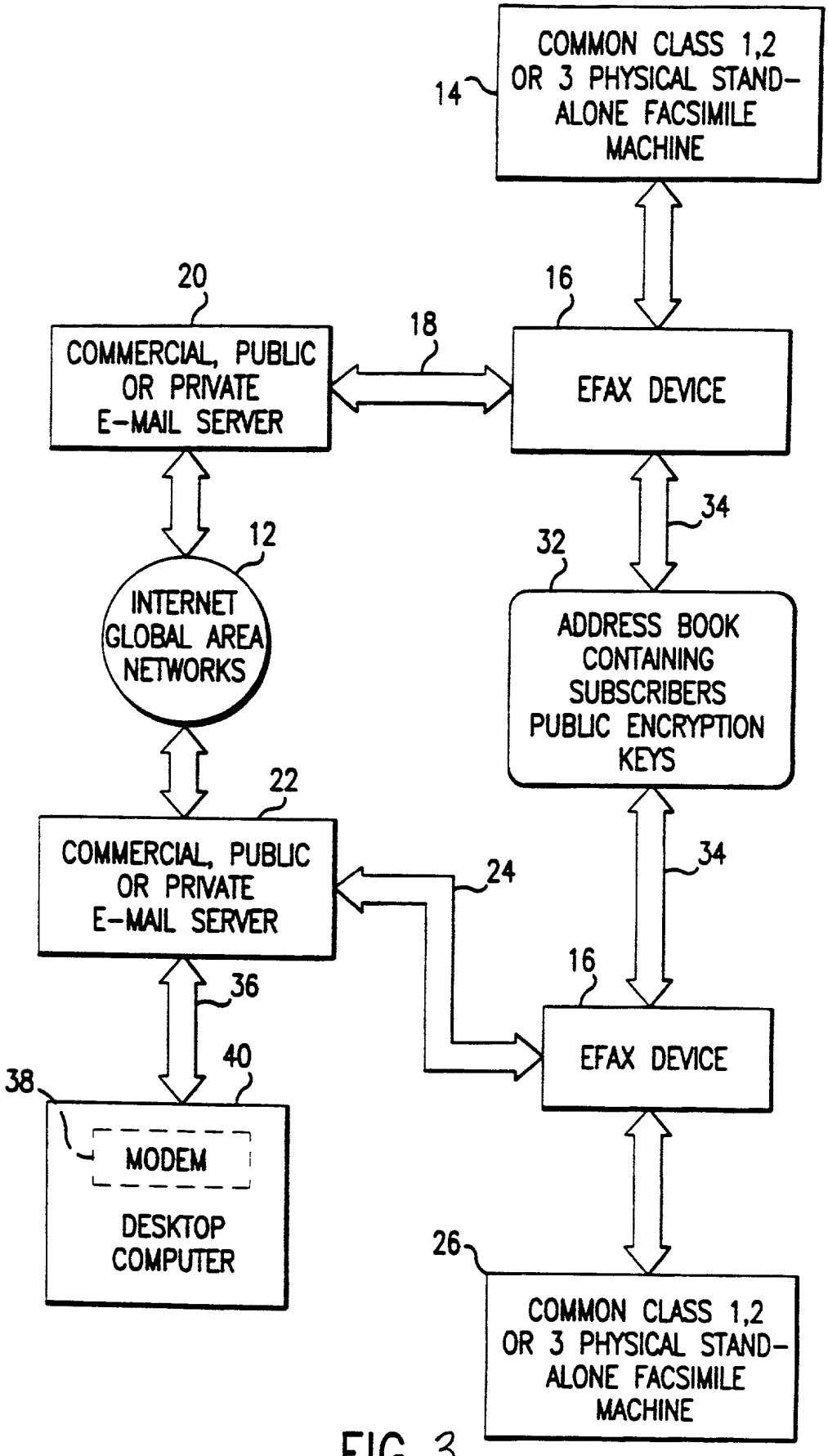

COMMON CLASS 1,2 OR 3 PHYSICAL STAND-ALONE FACSIMILE MACHINE
14
16
20
18
COMMERCIAL, PUBLIC OR PRIVATE E-MAIL SERVER
EFAX DEVICE
34
12
32
INTERNET GLOBAL AREA NETWORKS
ADDRESS BOOK CONTAINING SUBSCRIBERS PUBLIC ENCRYPTION KEYS
22
34
COMMERCIAL, PUBLIC OR PRIVATE E-MAIL SERVER
24
16
36
EFAX DEVICE
40
38
MODEM
DESKTOP COMPUTER
26
COMMON CLASS 1,2 OR 3 PHYSICAL STAND-ALONE FACSIMILE MACHINE

FIG. 3

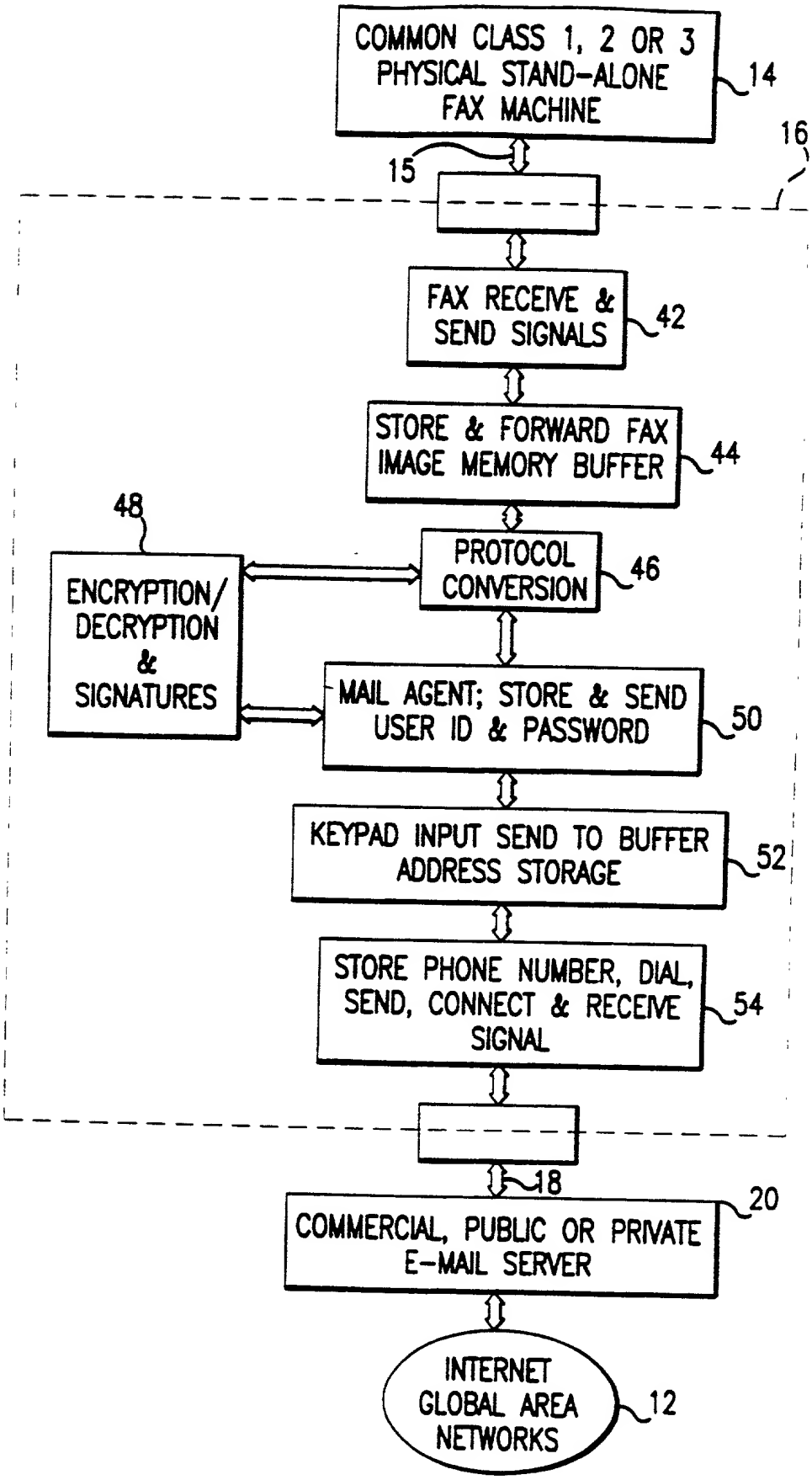

COMMON CLASS 1, 2 OR 3 PHYSICAL STAND-ALONE FAX MACHINE
14
16
15
FAX RECEIVE & SEND SIGNALS
42
STORE & FORWARD FAX IMAGE MEMORY BUFFER
44
48
ENCRYPTION/ DECRYPTION & SIGNATURES
PROTOCOL CONVERSION
46
MAIL AGENT; STORE & SEND USER ID & PASSWORD
50
KEYPAD INPUT SEND TO BUFFER ADDRESS STORAGE
52
STORE PHONE NUMBER, DIAL, SEND, CONNECT & RECEIVE SIGNAL
54
18
20
COMMERCIAL, PUBLIC OR PRIVATE E-MAIL SERVER
INTERNET GLOBAL AREA NETWORKS
12

FIG. 4

Patent-US-06757265-B1

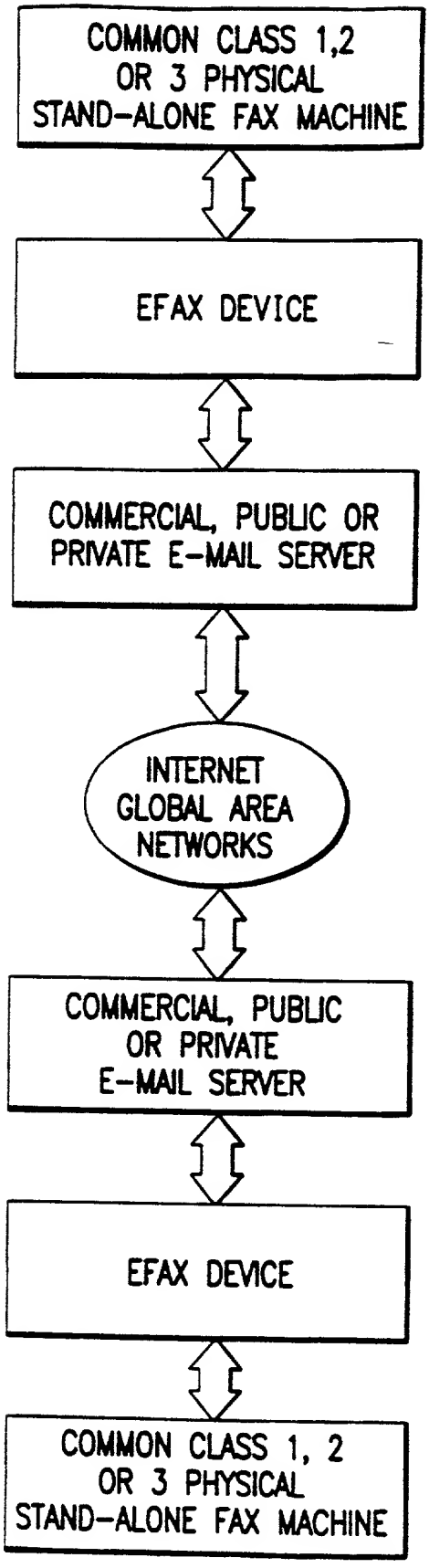


FIG. 5

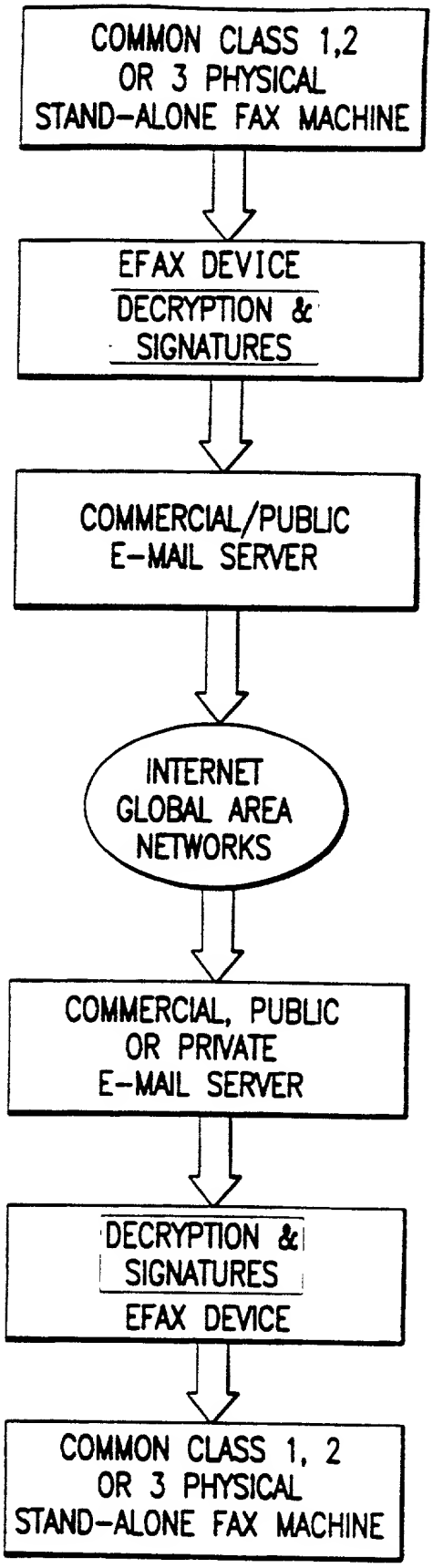


FIG. 6

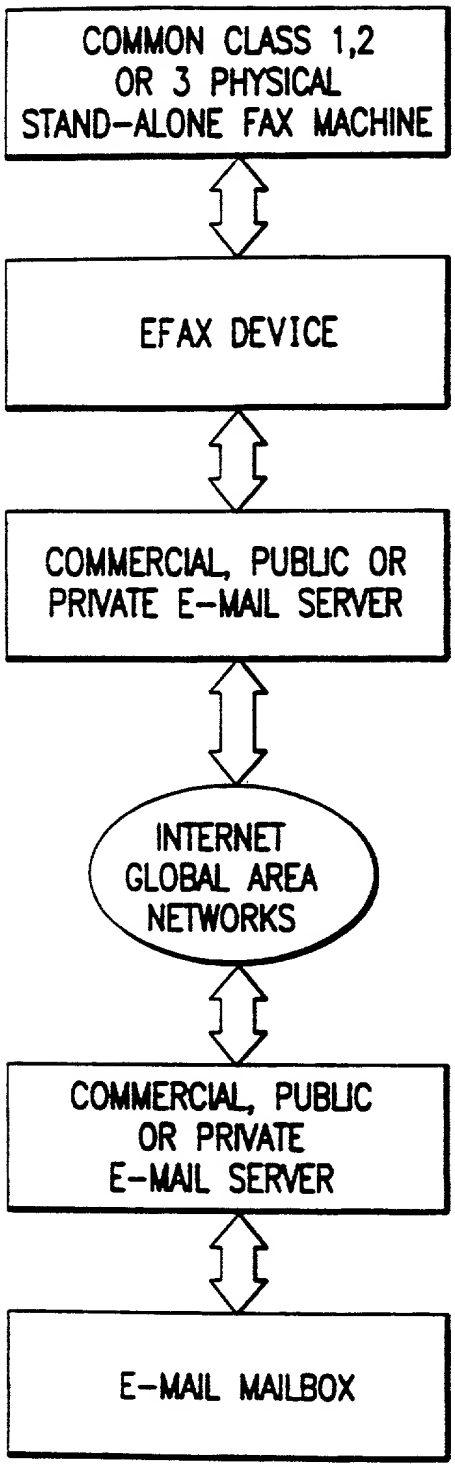

COMMON CLASS 1,2
OR 3 PHYSICAL
STAND-ALONE FAX MACHINE
EFAX DEVICE
COMMERCIAL, PUBLIC OR
PRIVATE E-MAIL SERVER
INTERNET
GLOBAL AREA
NETWORKS
COMMERCIAL, PUBLIC
OR PRIVATE
E-MAIL SERVER
E-MAIL MAILBOX

FIG. 7

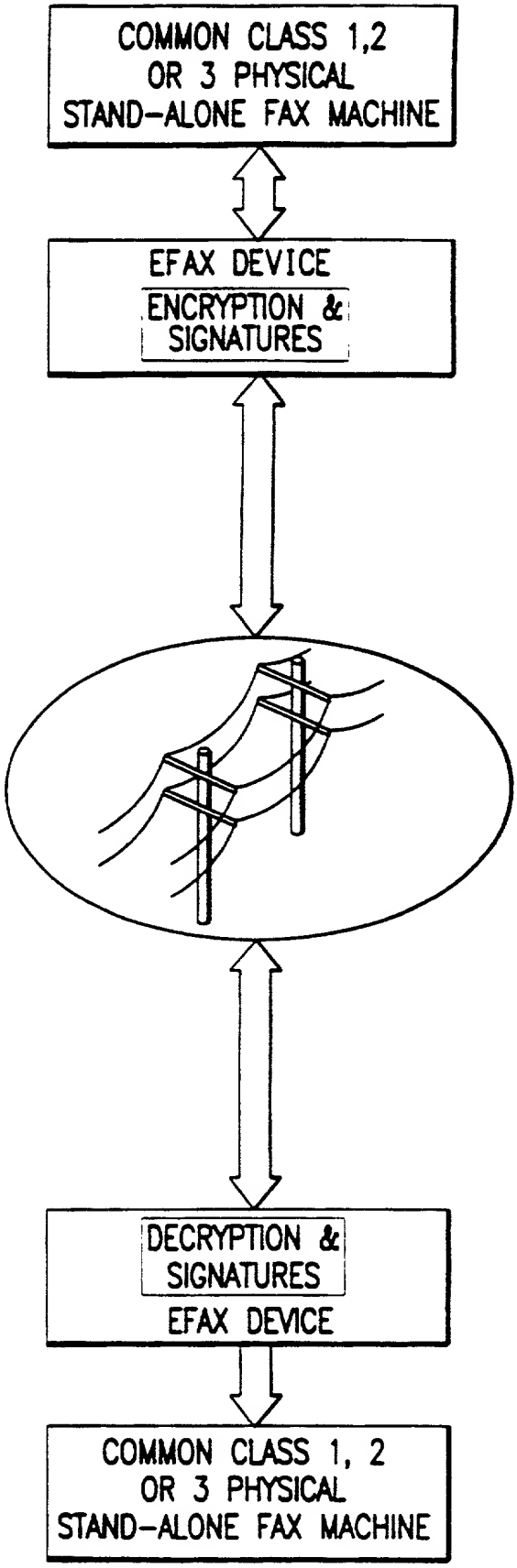

COMMON CLASS 1,2
OR 3 PHYSICAL
STAND-ALONE FAX MACHINE
EFAX DEVICE
ENCRYPTION &
SIGNATURES
DECRYPTION &
SIGNATURES
EFAX DEVICE
COMMON CLASS 1, 2
OR 3 PHYSICAL
STAND-ALONE FAX MACHINE

FIG. 8

TOTT90" 98272860

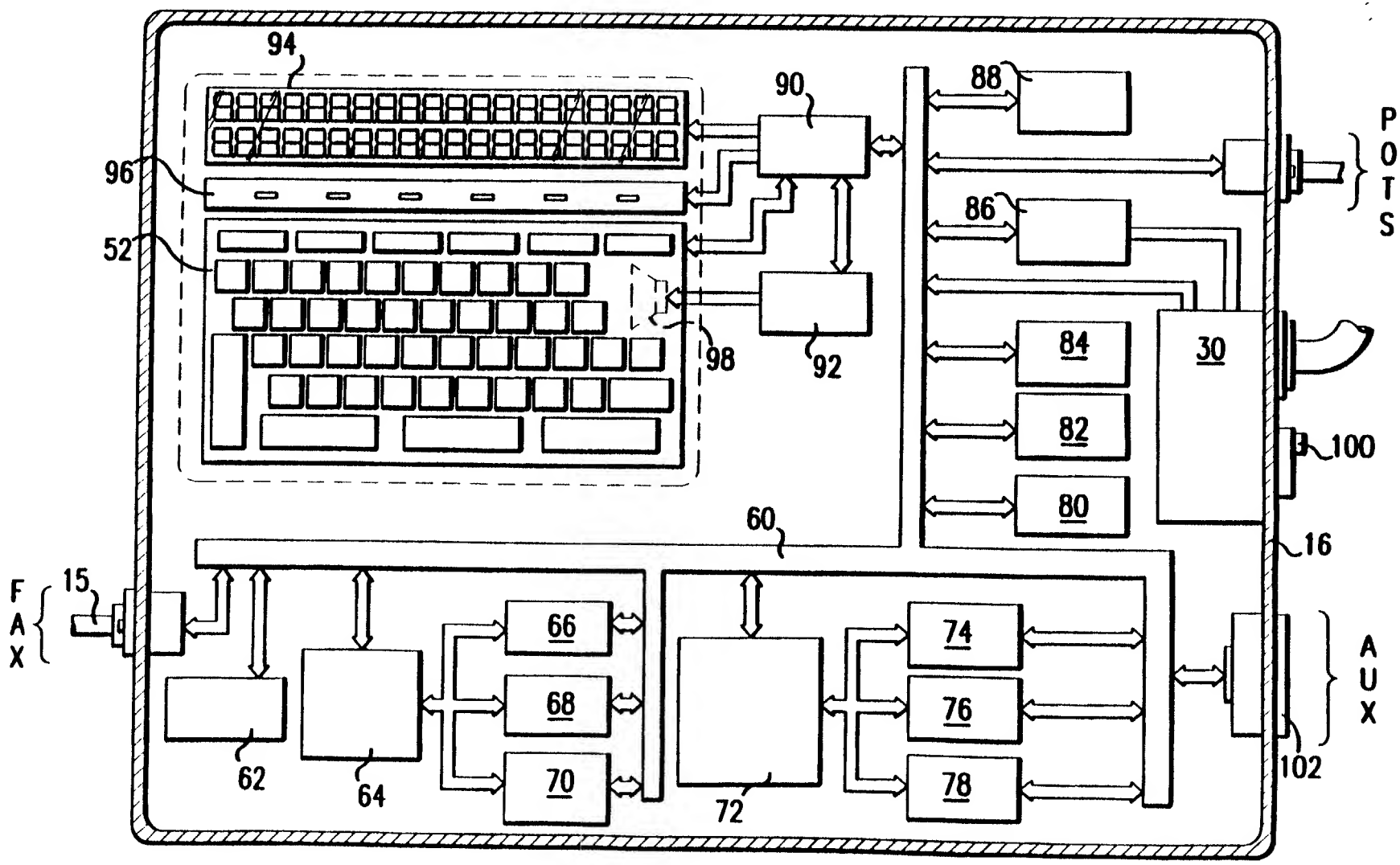


FIG. 9

TOTT90"8621286D

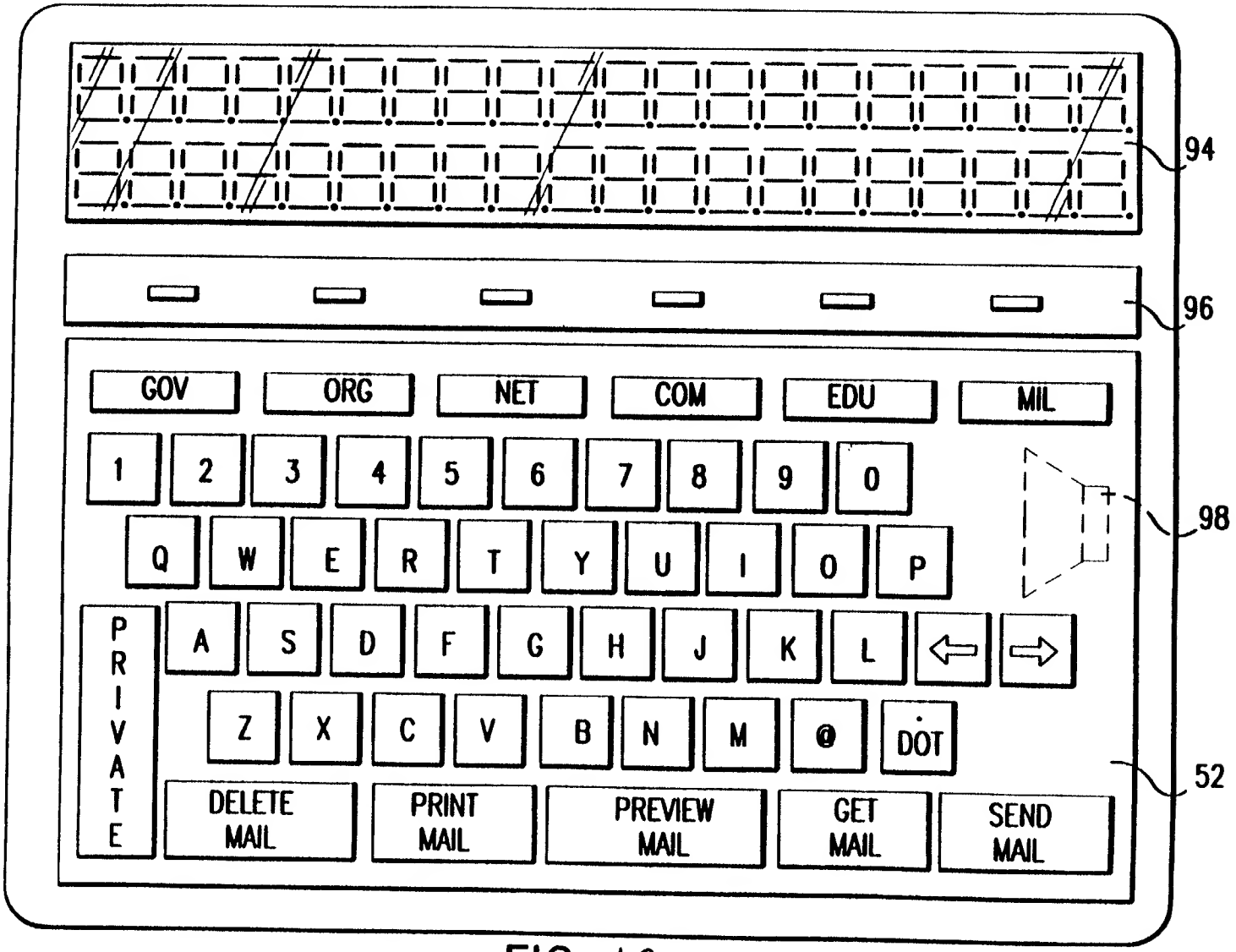


FIG. 10

TOTT90 "8628286O

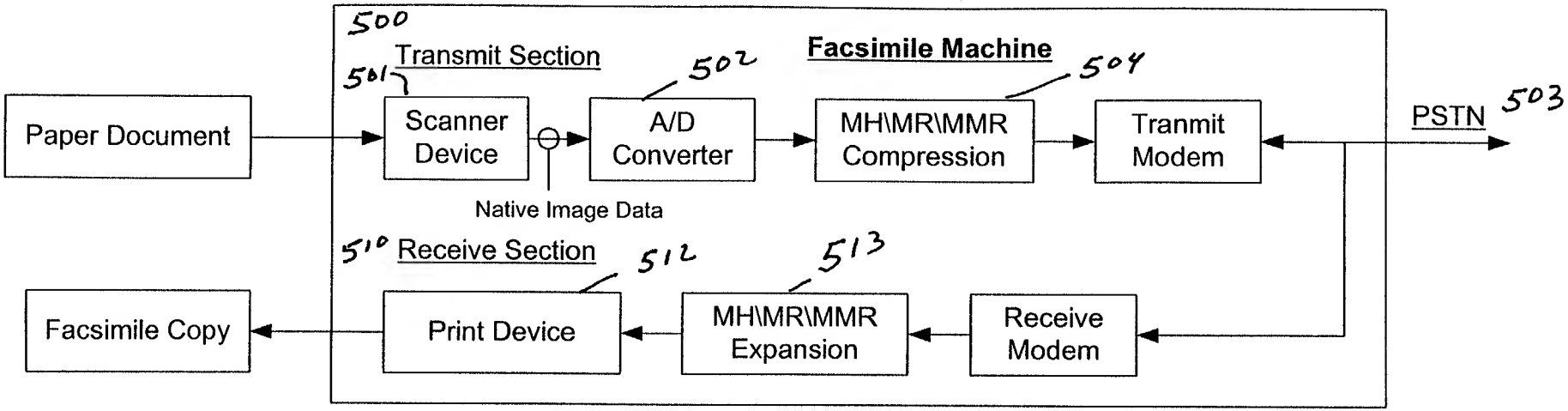


Figure 11

TOTT90"8E2Z8860

Figure 12

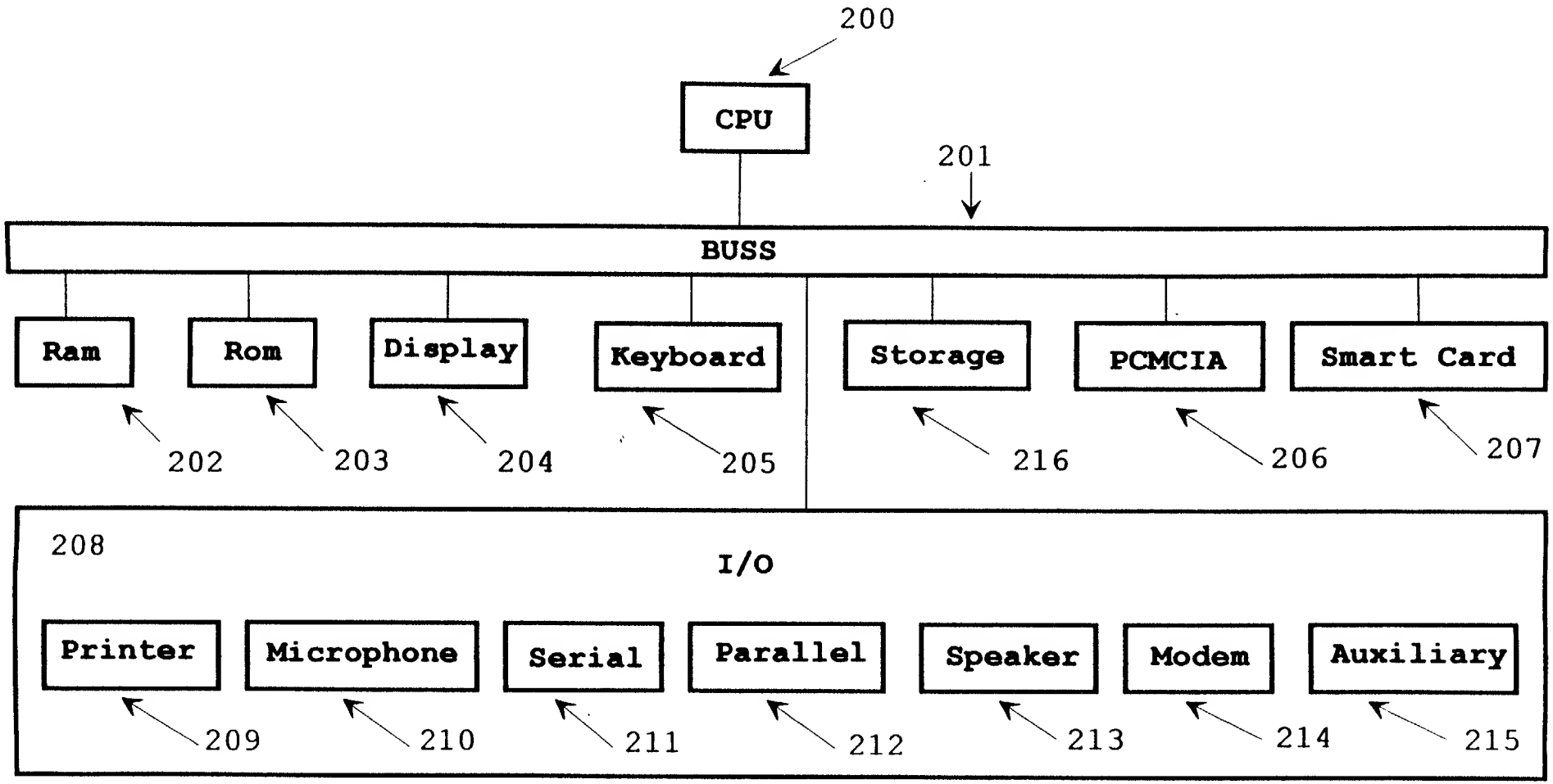


Figure 13

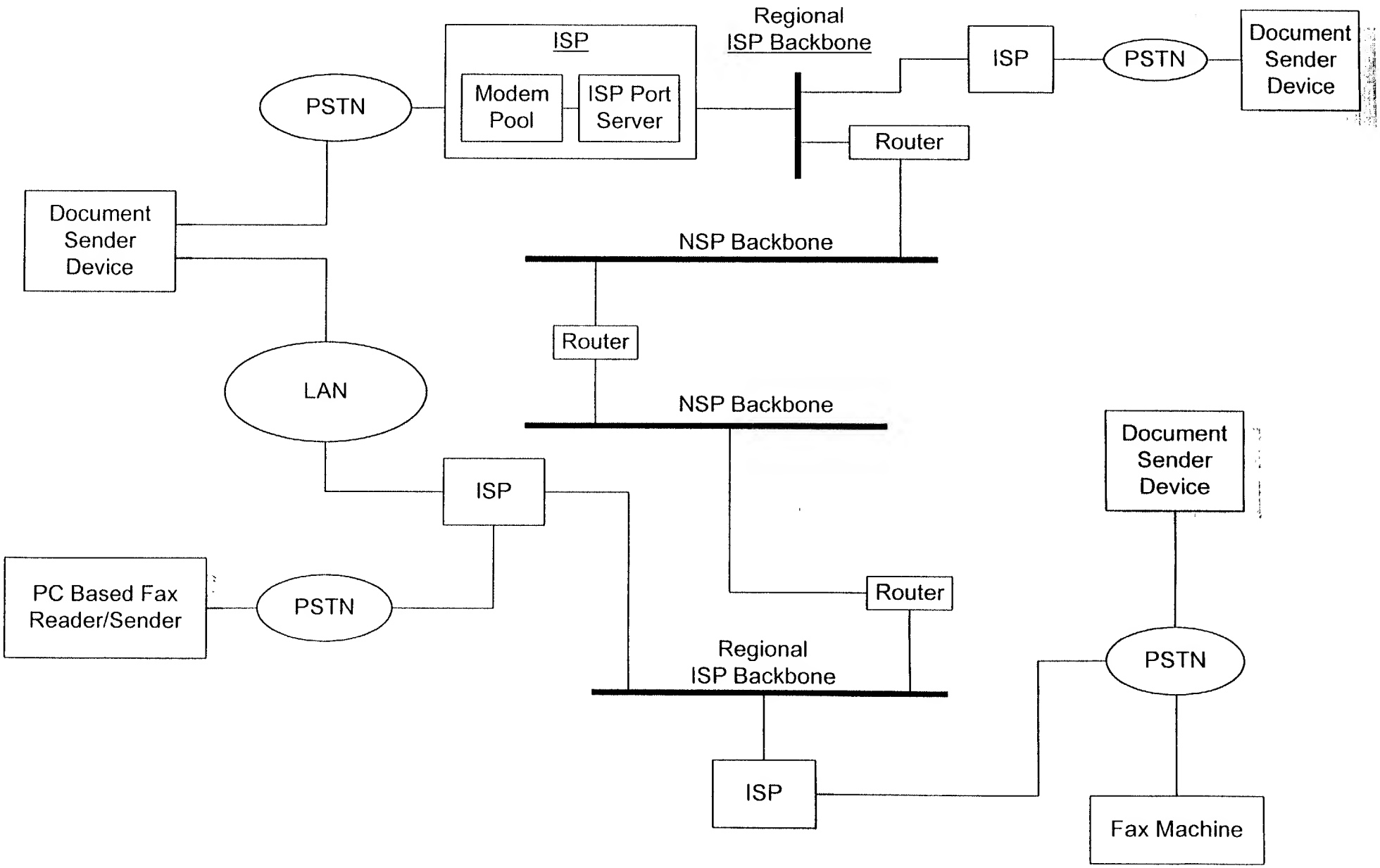
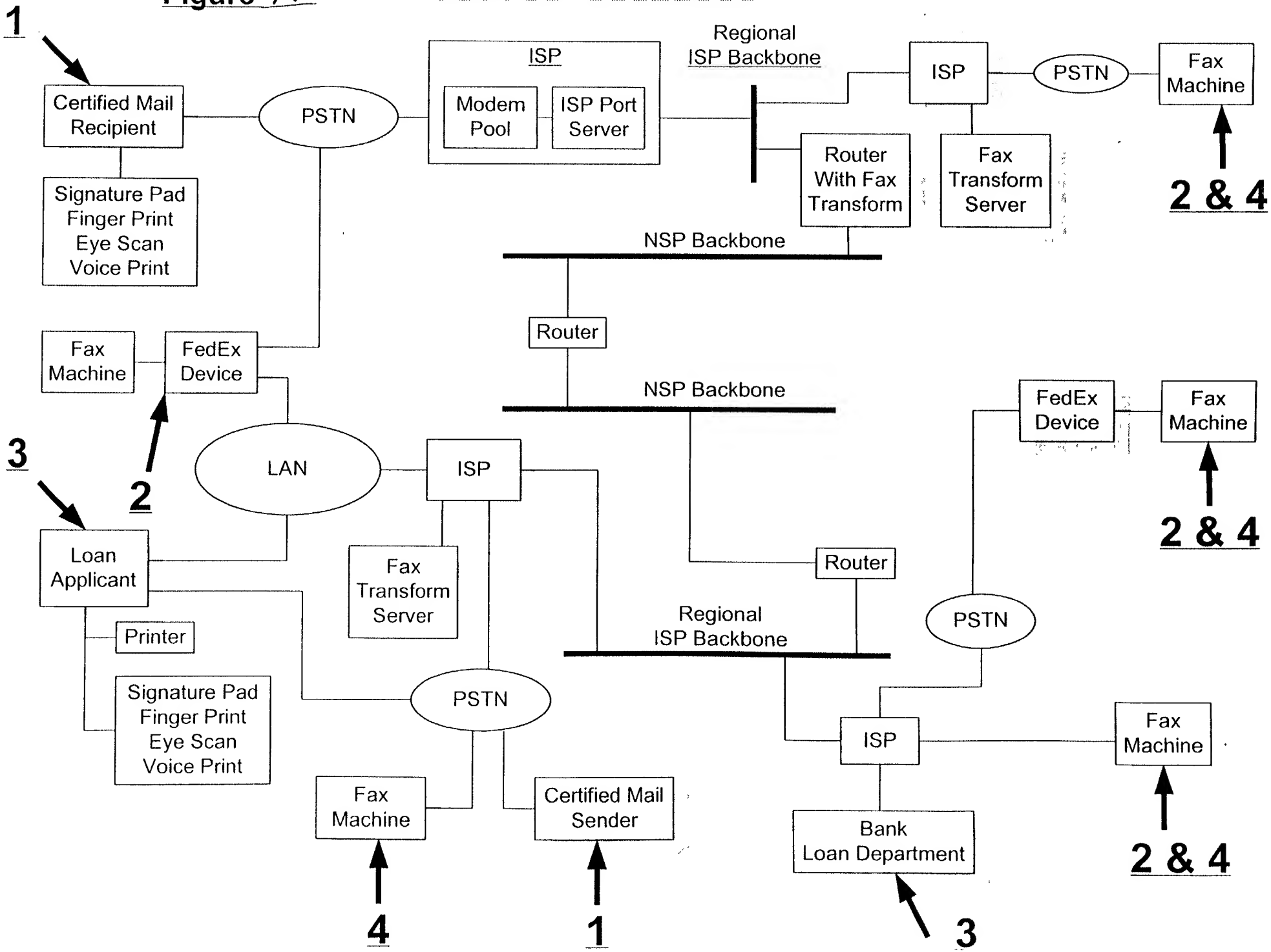

ISP
Modem Pool
ISP Port Server
Regional ISP Backbone
ISP
PSTN
Document Sender Device
PSTN
Router
Document Sender Device
NSP Backbone
Router
LAN
NSP Backbone
Document Sender Device
ISP
PC Based Fax Reader/Sender
PSTN
Router
Regional ISP Backbone
PSTN
ISP
Fax Machine

Figure 14


1
Certified Mail Recipient
PSTN
ISP
Modem Pool
ISP Port Server
Regional ISP Backbone
ISP
PSTN
Fax Machine
2 & 4
Signature Pad
Finger Print
Eye Scan
Voice Print
Router With Fax Transform
Fax Transform Server
NSP Backbone
Router
Fax Machine
FedEx Device
NSP Backbone
FedEx Device
Fax Machine
2 & 4
3
2
LAN
ISP
Loan Applicant
Fax Transform Server
Router
Regional ISP Backbone
PSTN
Printer
Signature Pad
Finger Print
Eye Scan
Voice Print
PSTN
ISP
Fax Machine
Fax Machine
Certified Mail Sender
Bank Loan Department
2 & 4
4
1
3

TOT90 "BE2L2860

Figure 15

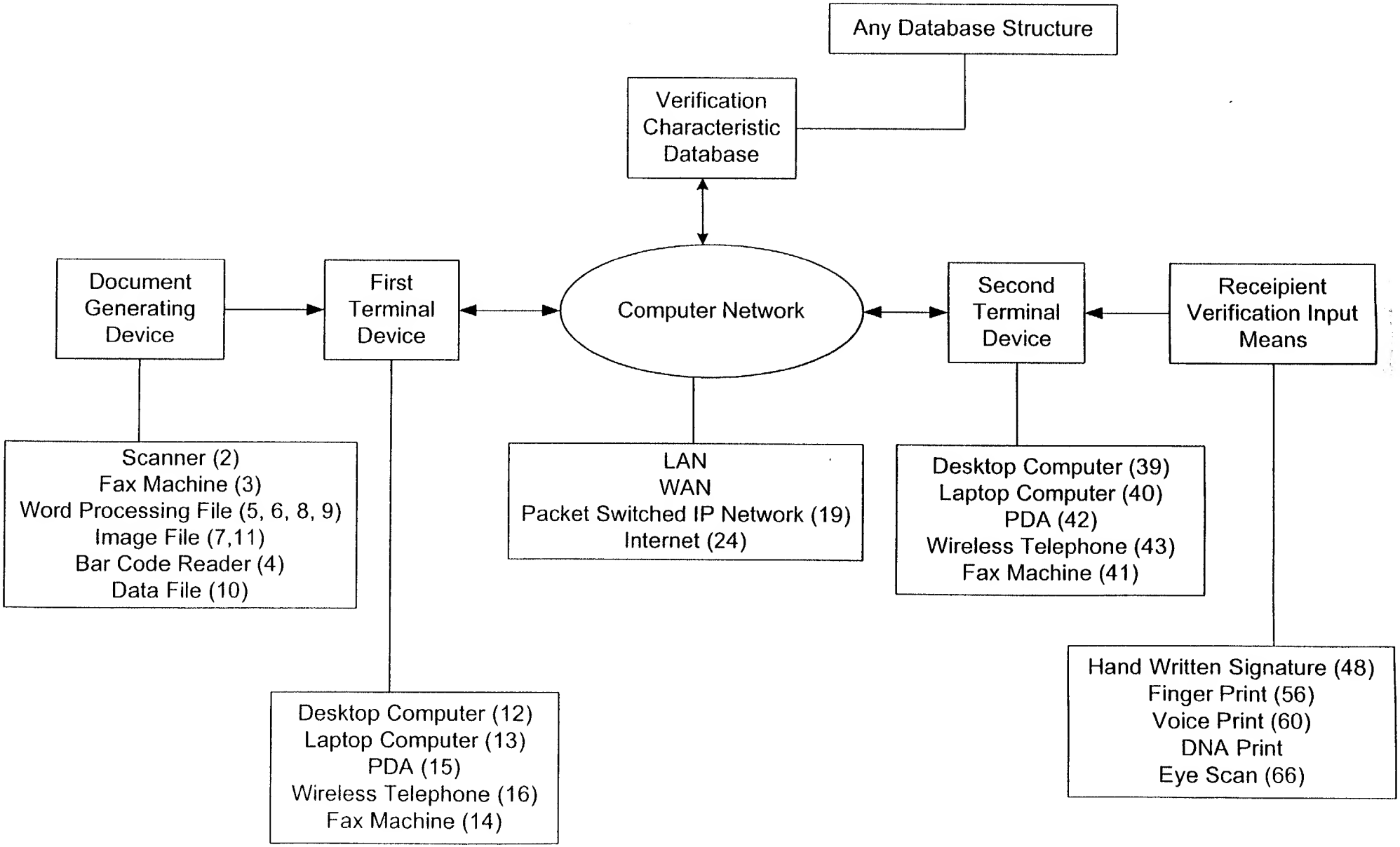
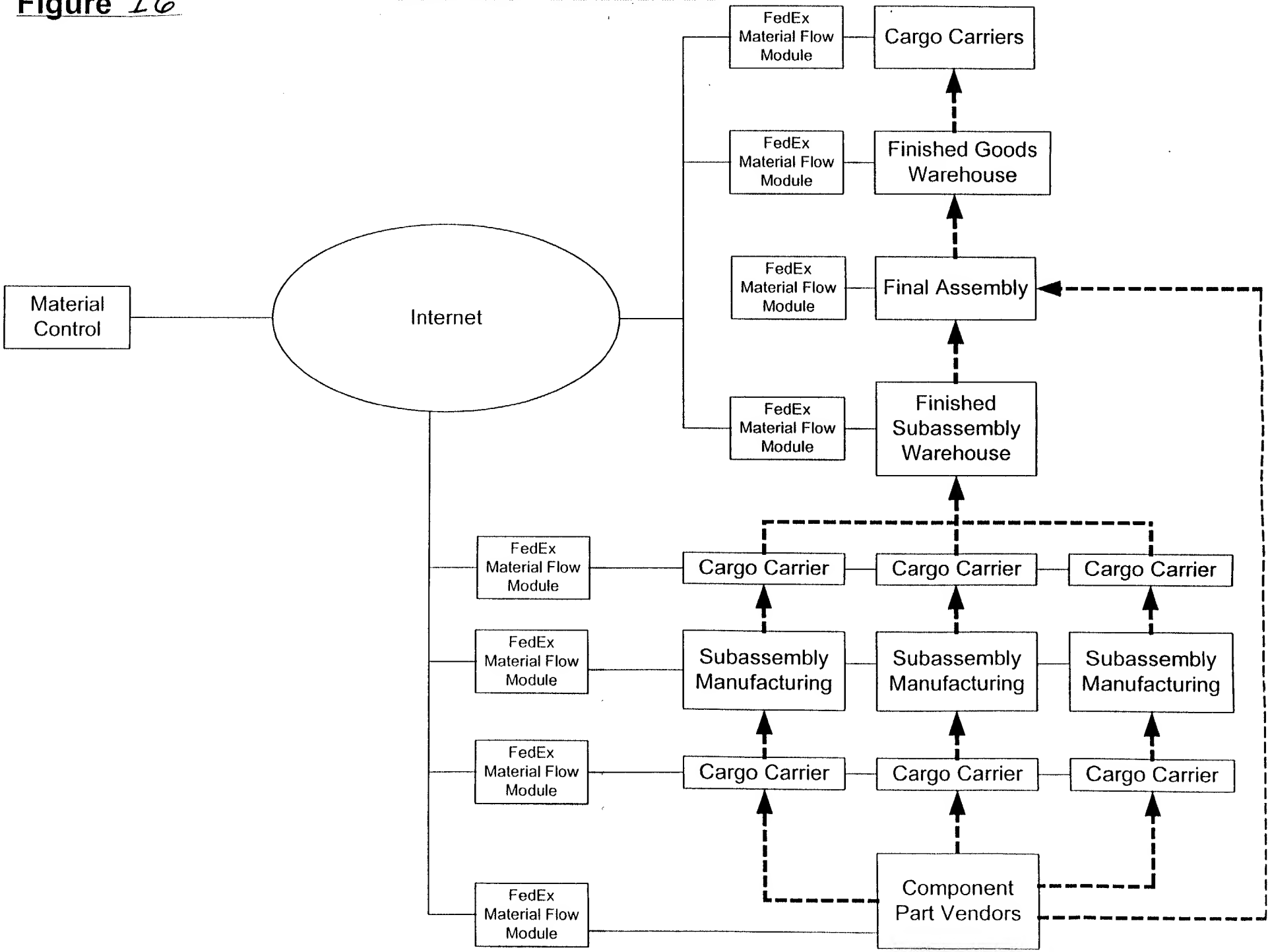


Figure 16


Material Control
Internet
FedEx Material Flow Module
Cargo Carriers
Finished Goods Warehouse
Final Assembly
Finished Subassembly Warehouse
Cargo Carrier
Subassembly Manufacturing
Component Part Vendors

TOTTOD 0E2ZZ860

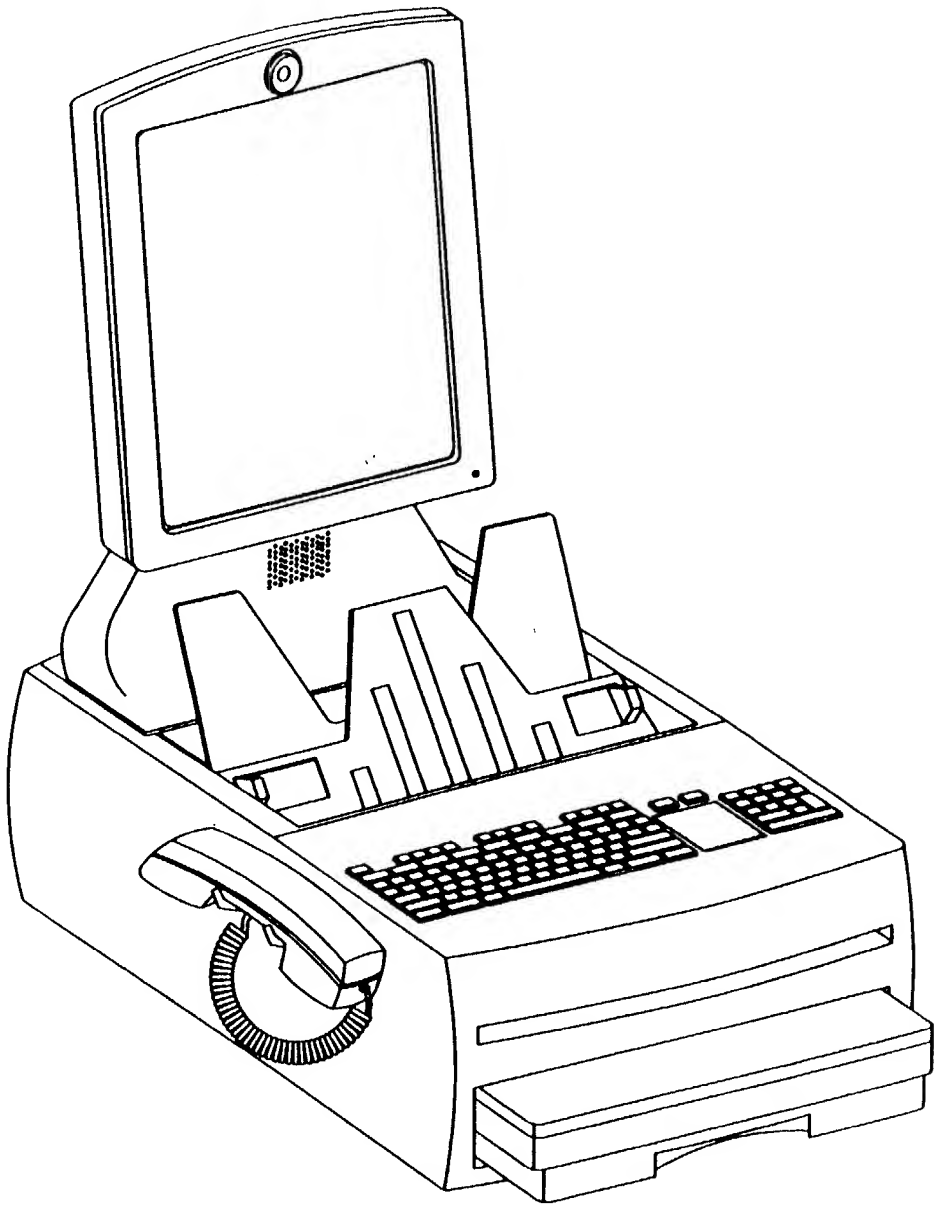


Figure 17

TOTT90 "8E2Z7860

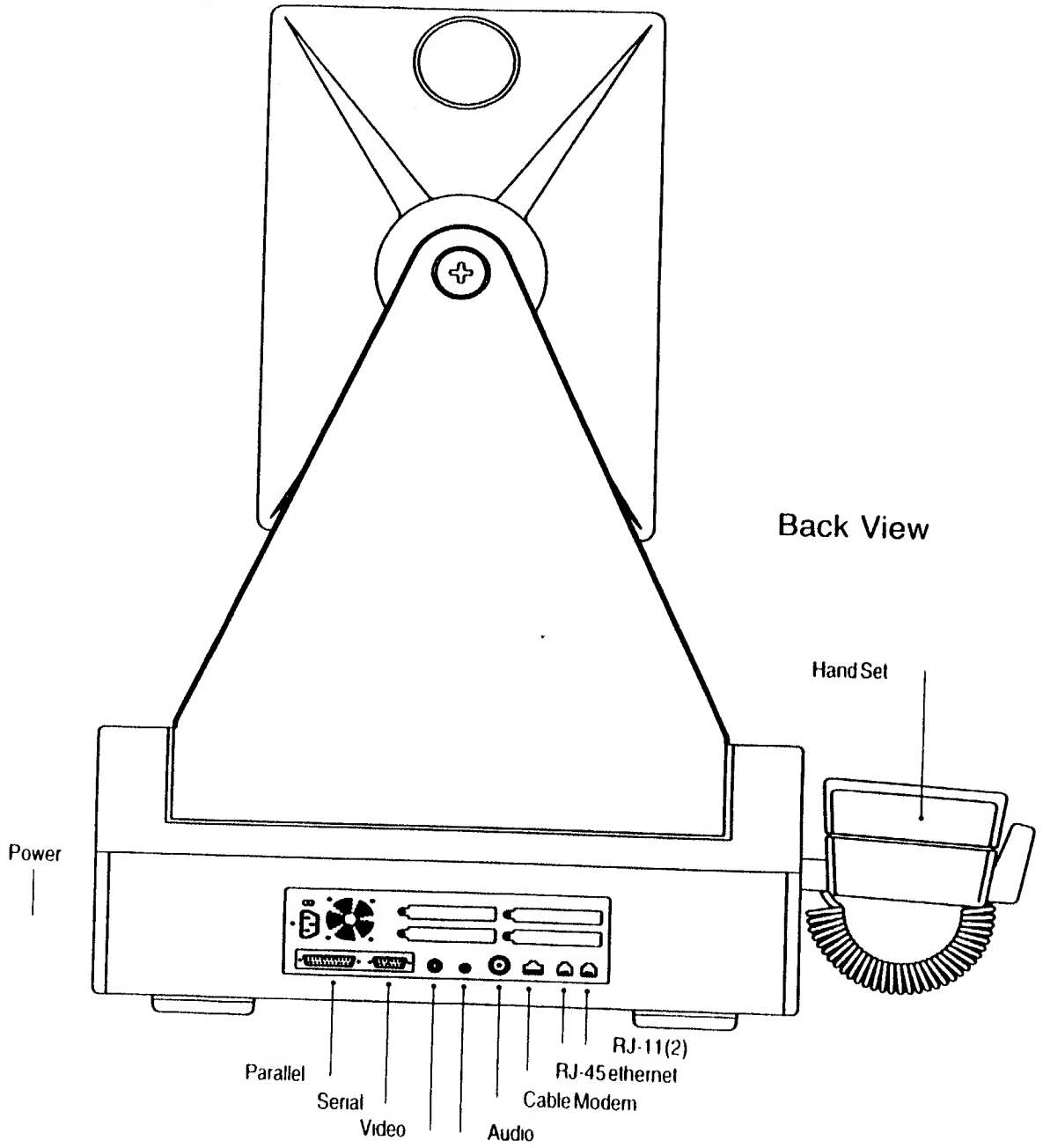


Figure 18

TOTSO" 8E2Z2860

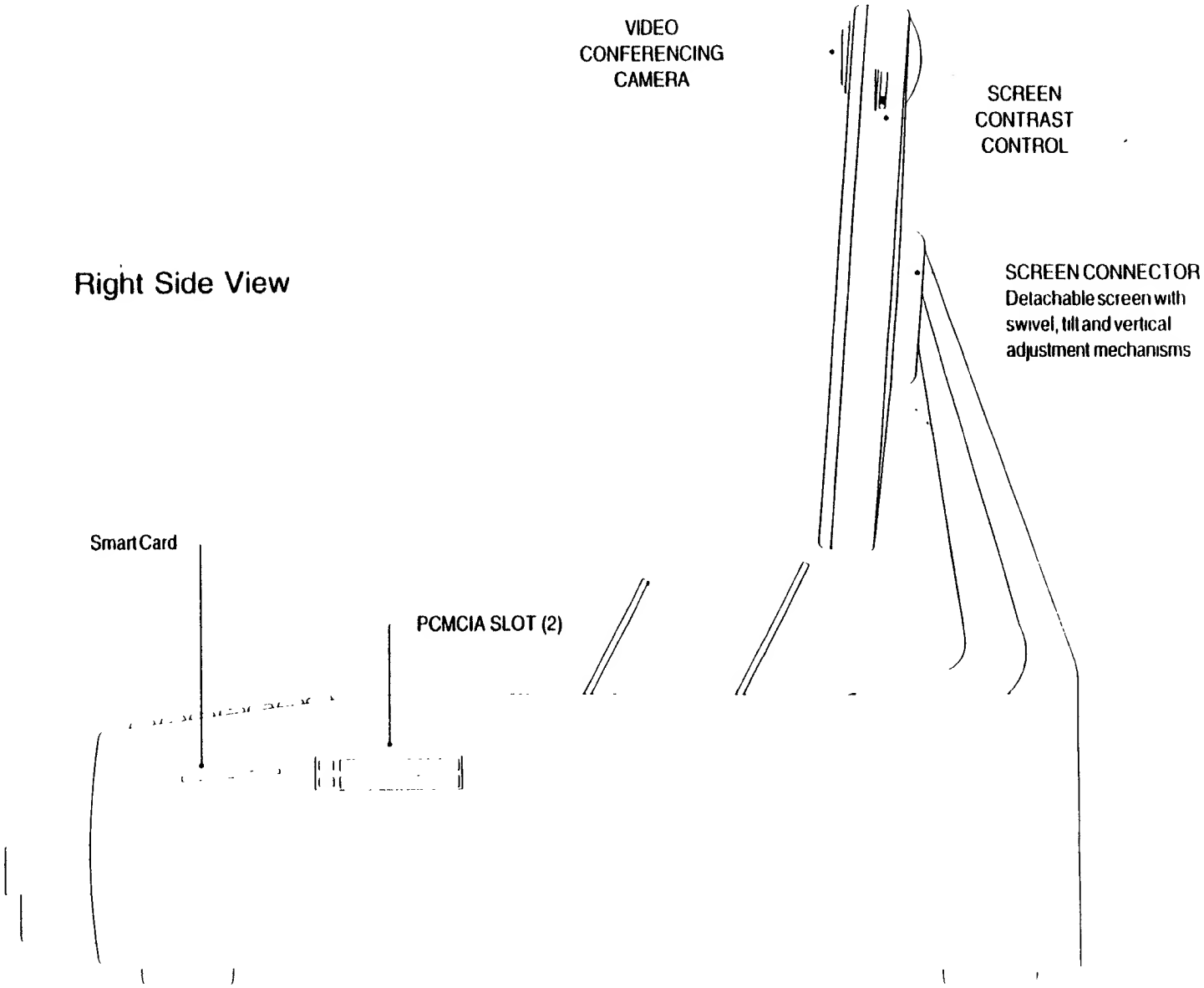


Figure 19

TOTF90" 9E2Z8360

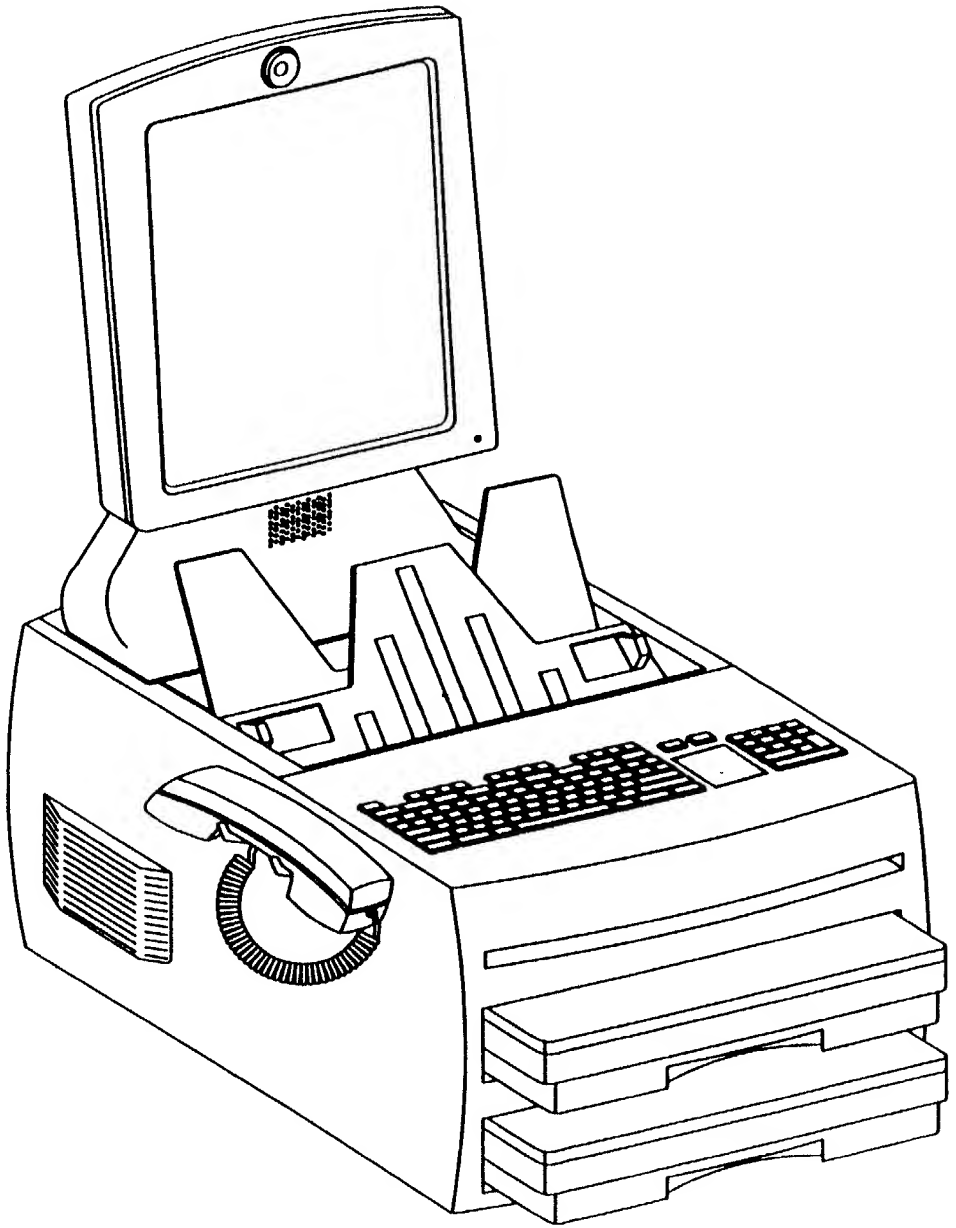


Figure 20

TOTT90 "8624860

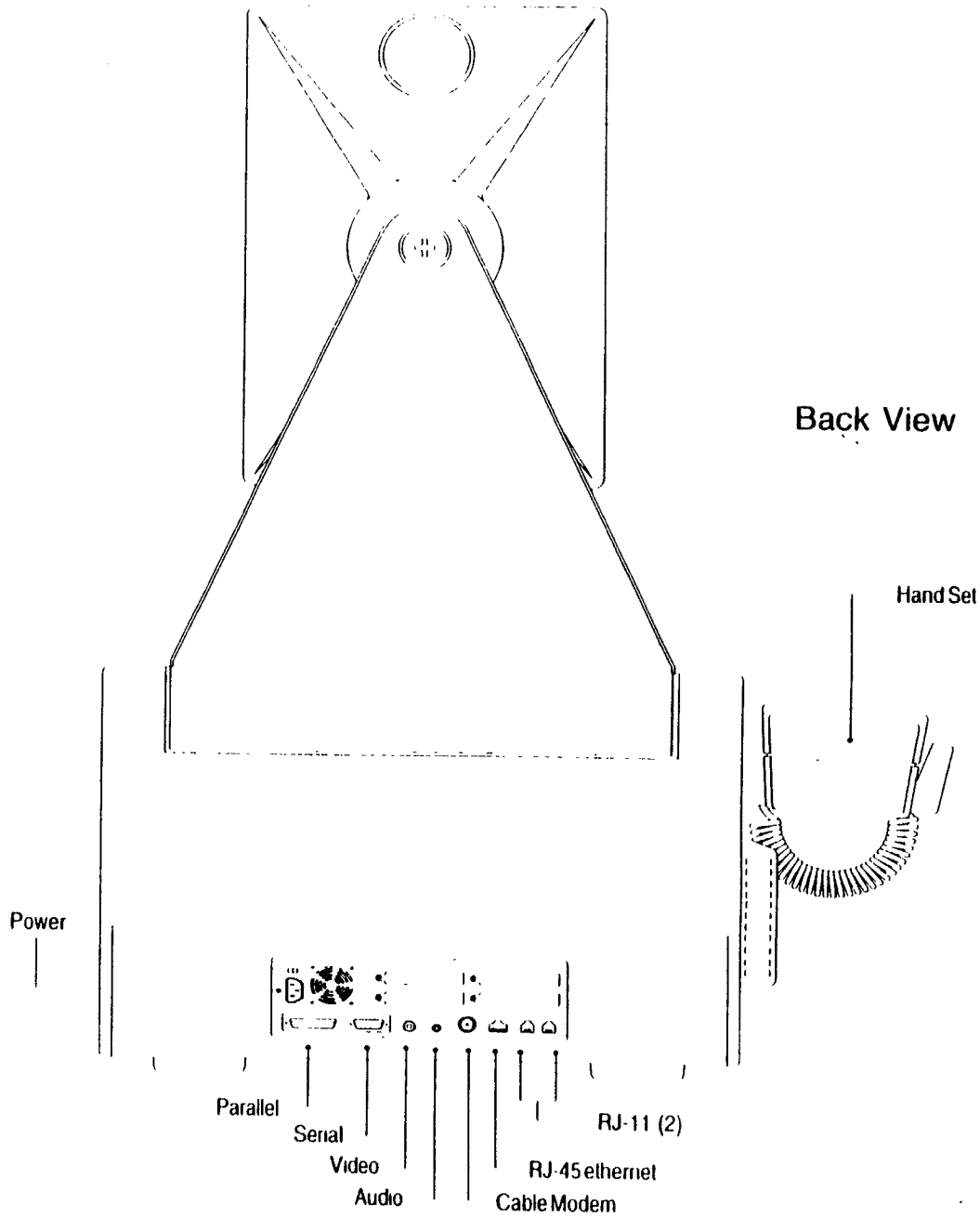


Figure 21

e-Concierge'.MFD
Hardware Ports

Right Side View

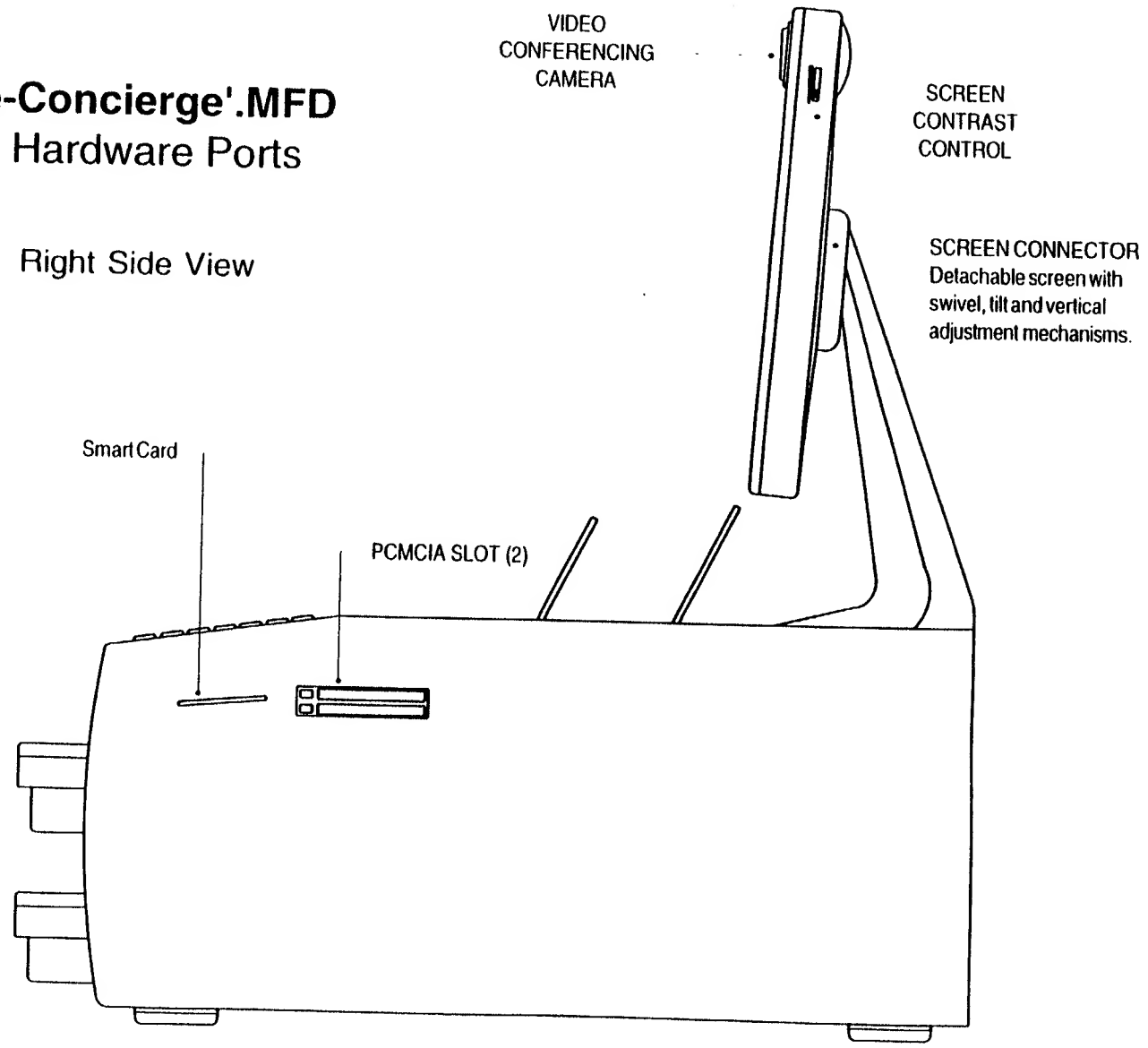


Figure 22

D0TT90" 8E2Z2860

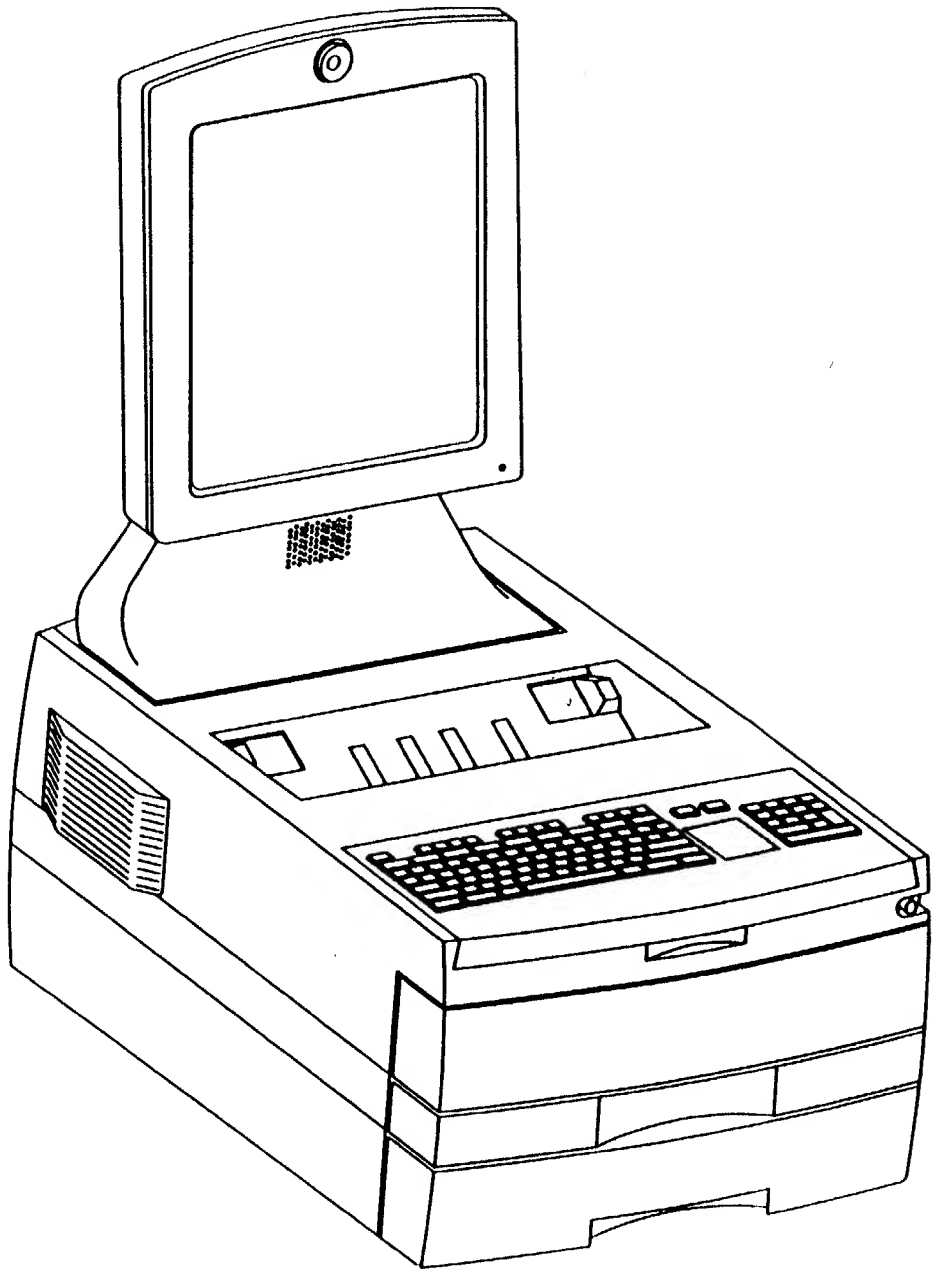
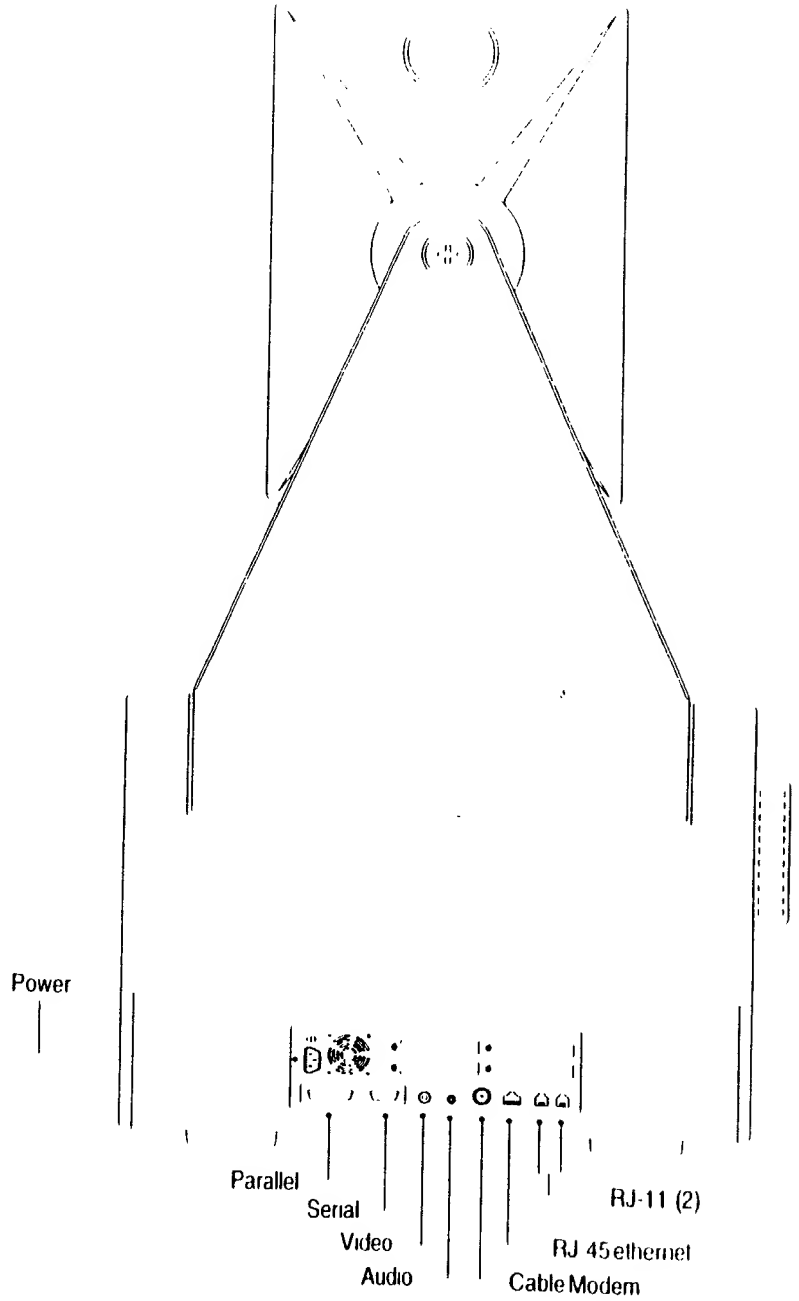


Figure 23

TOTT90 "BE2Z86D



Back View

Figure 24

TOT90 86242860

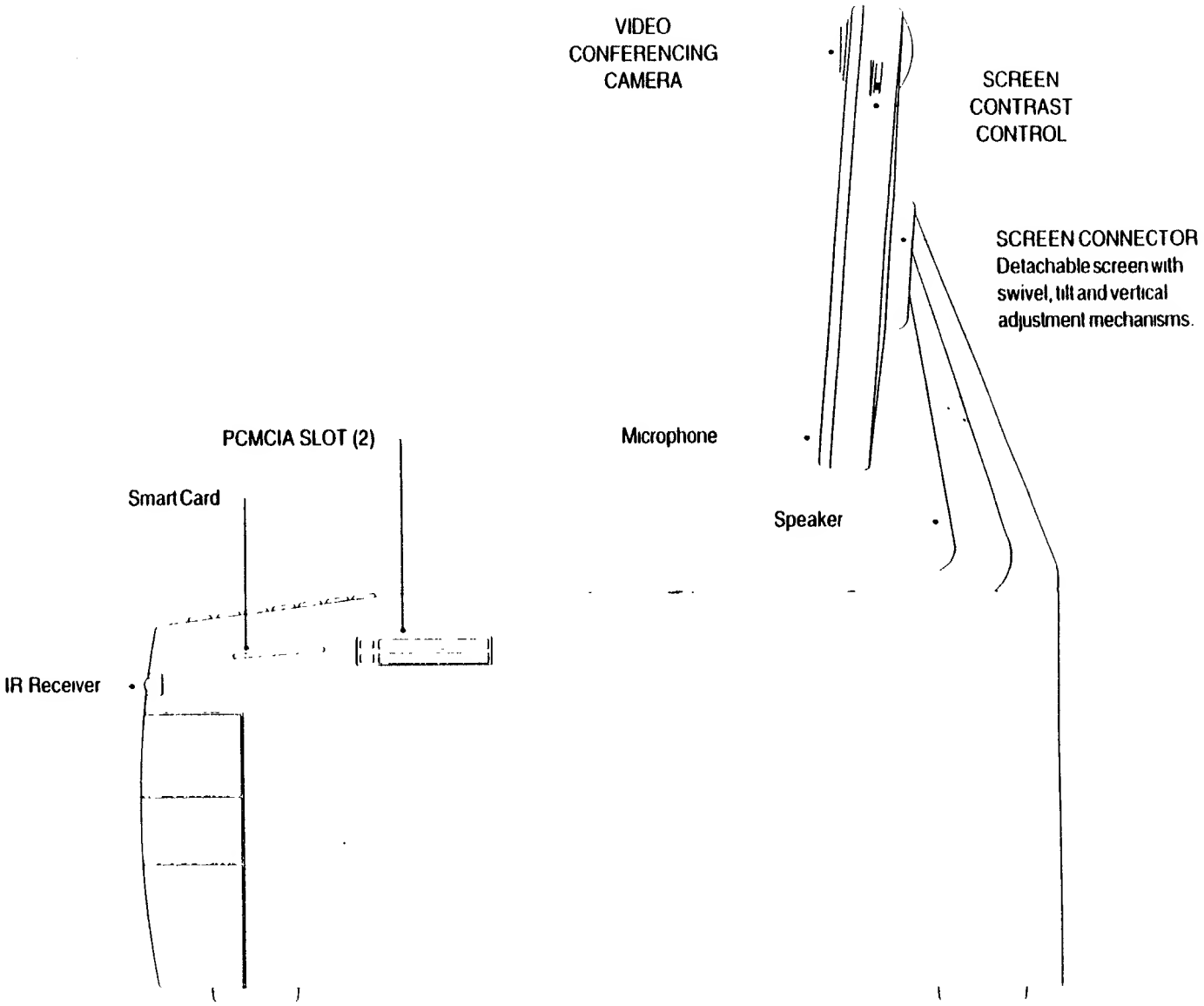


Figure 25

TOTT90" 8E2Z8960

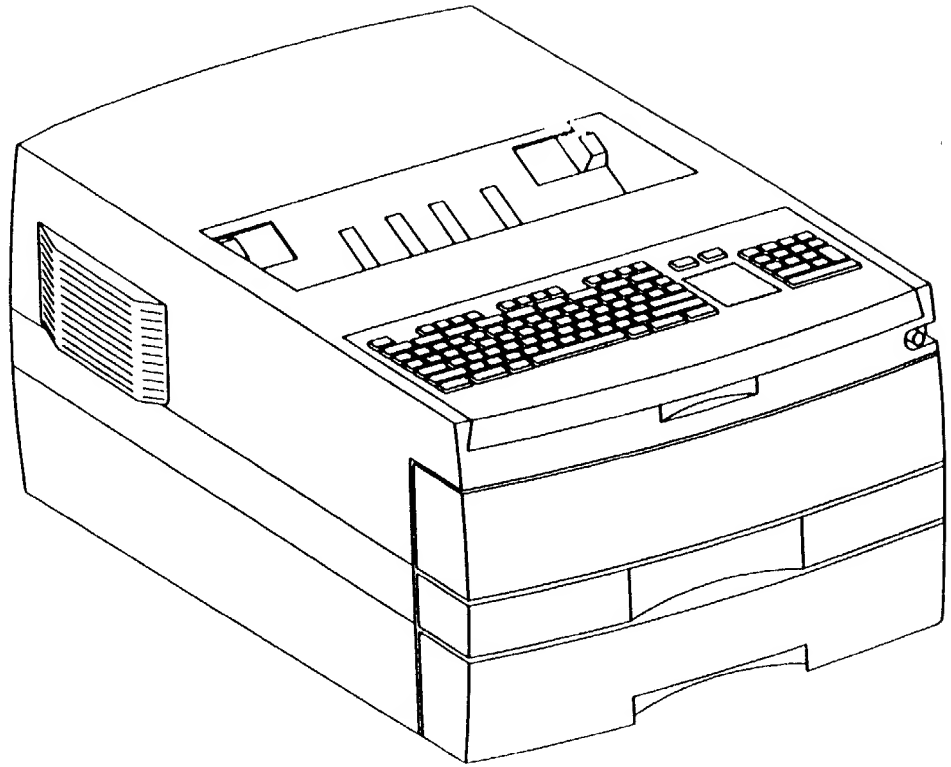


Figure 26

TOT90 D620Z6860

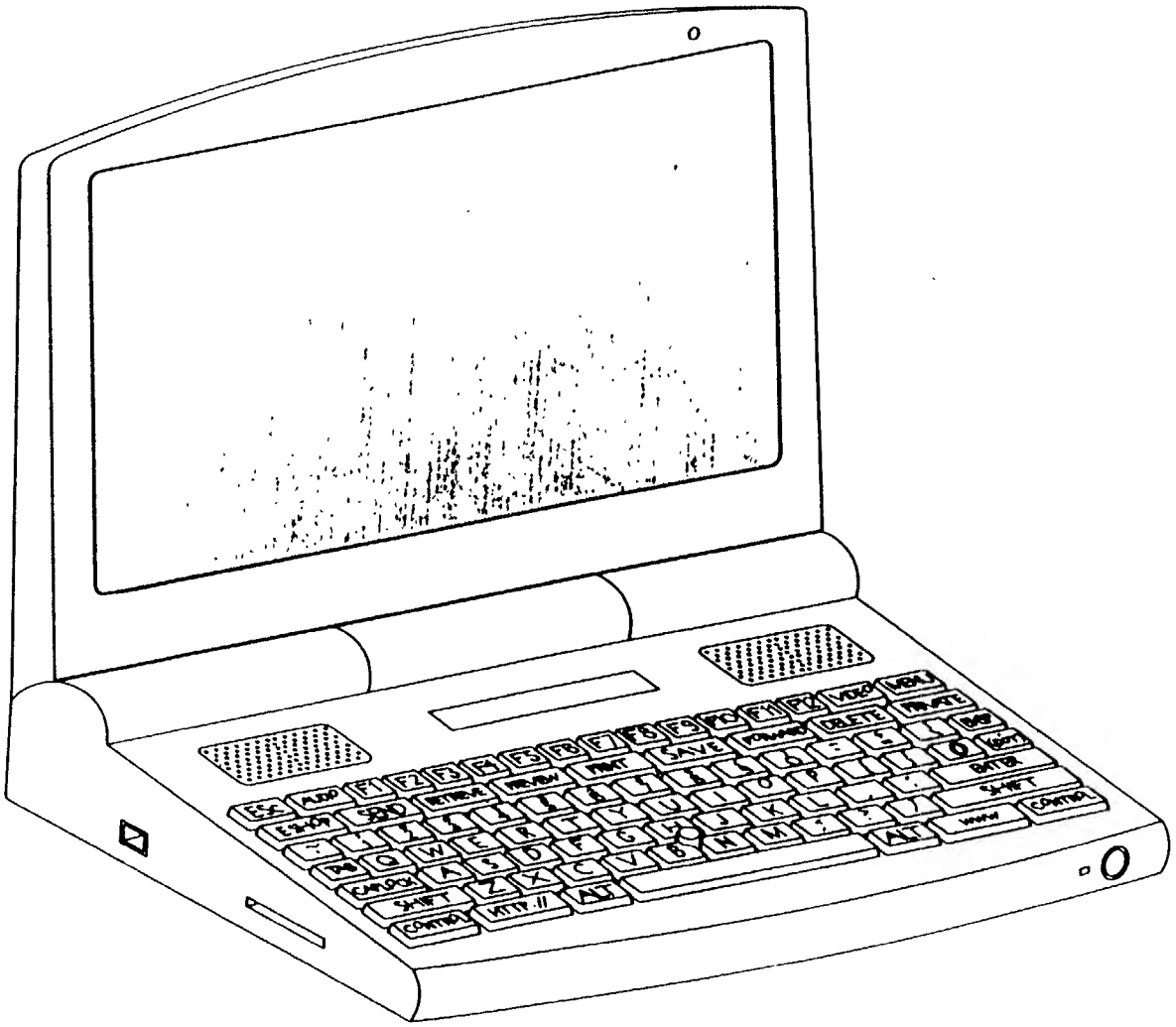


Figure 27

TOTT90"8E2Z8360

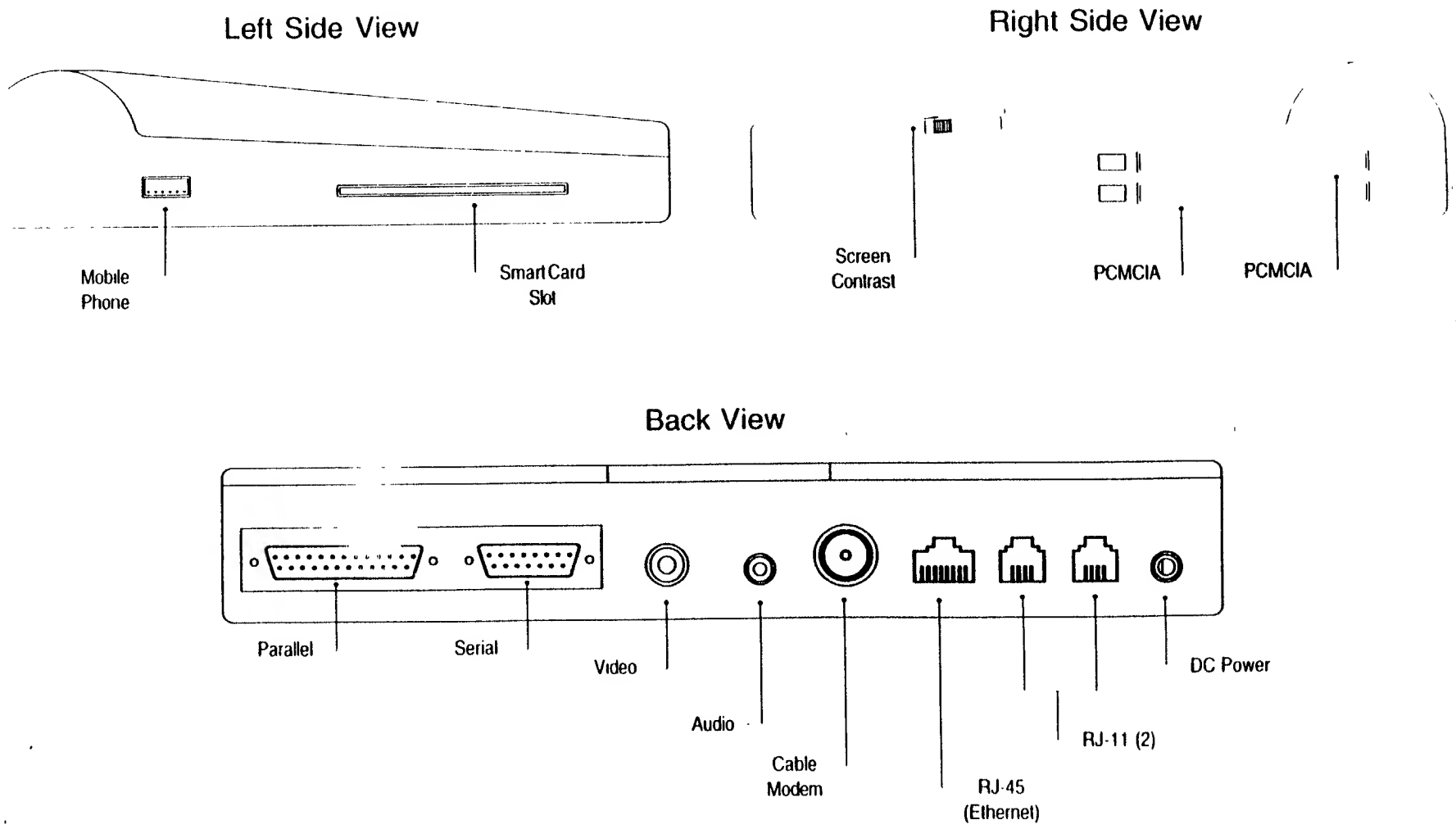


Figure 28

TOTT90"86272860

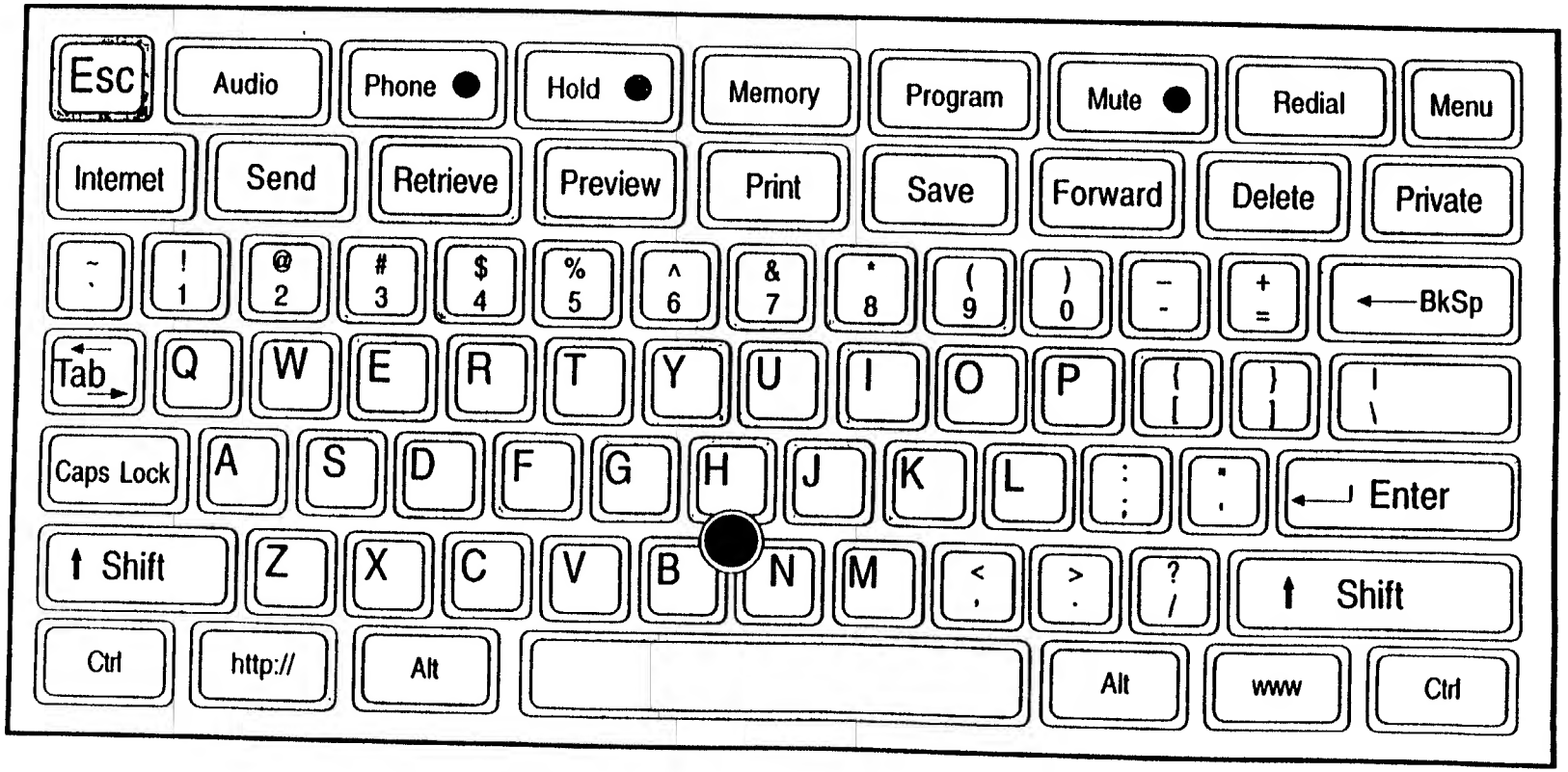


Figure 29

TOTT90"8627860

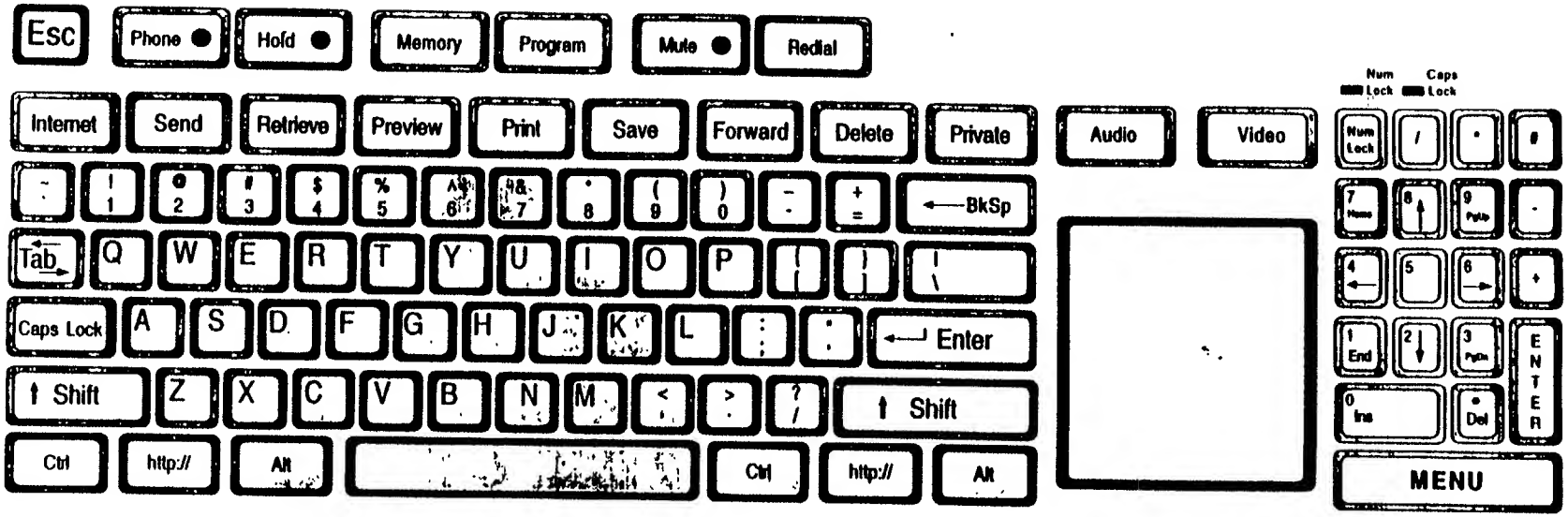


Figure 30

TOTT90 "8E2Z9860

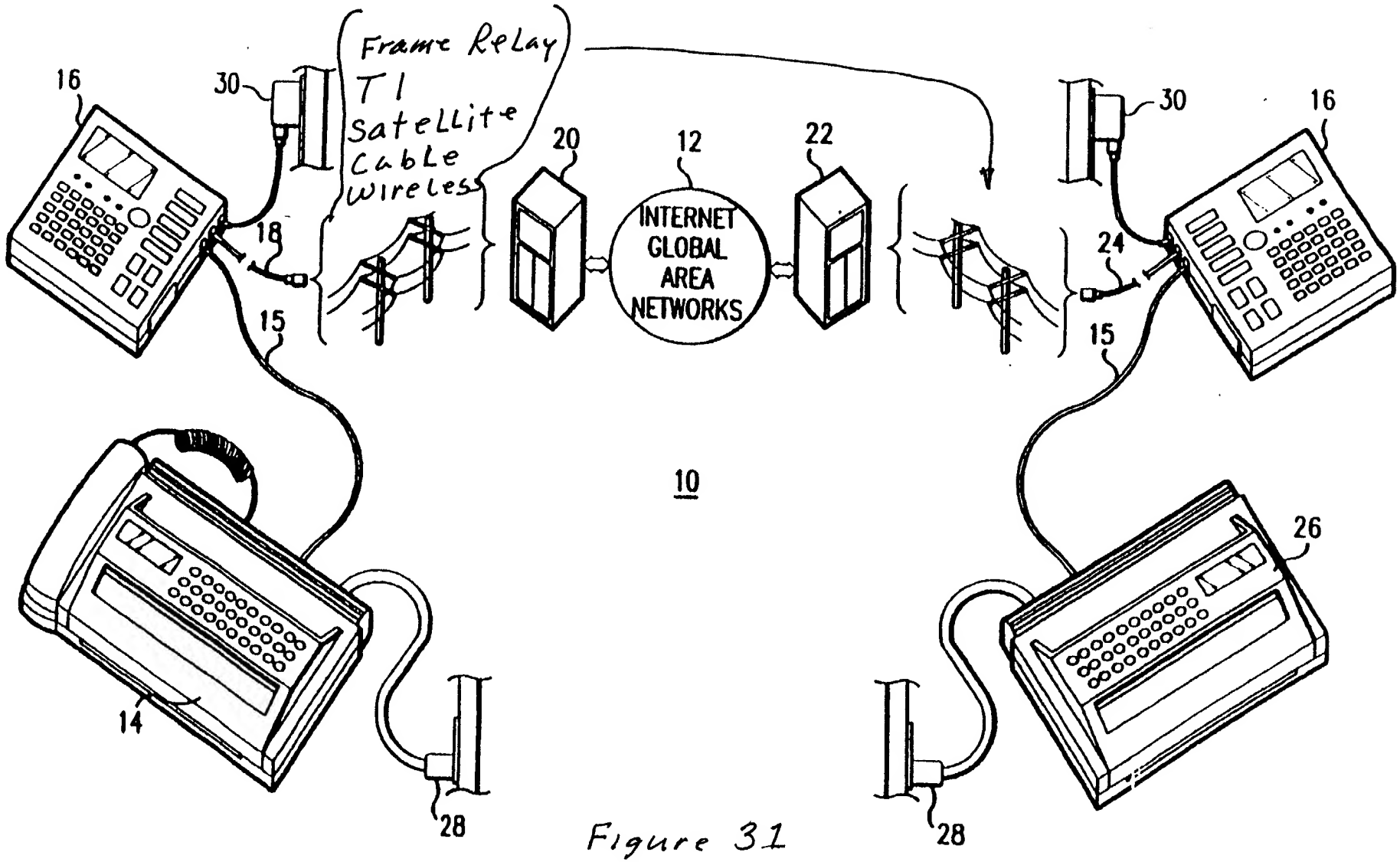


Figure 31

TOTTSO" 8624860

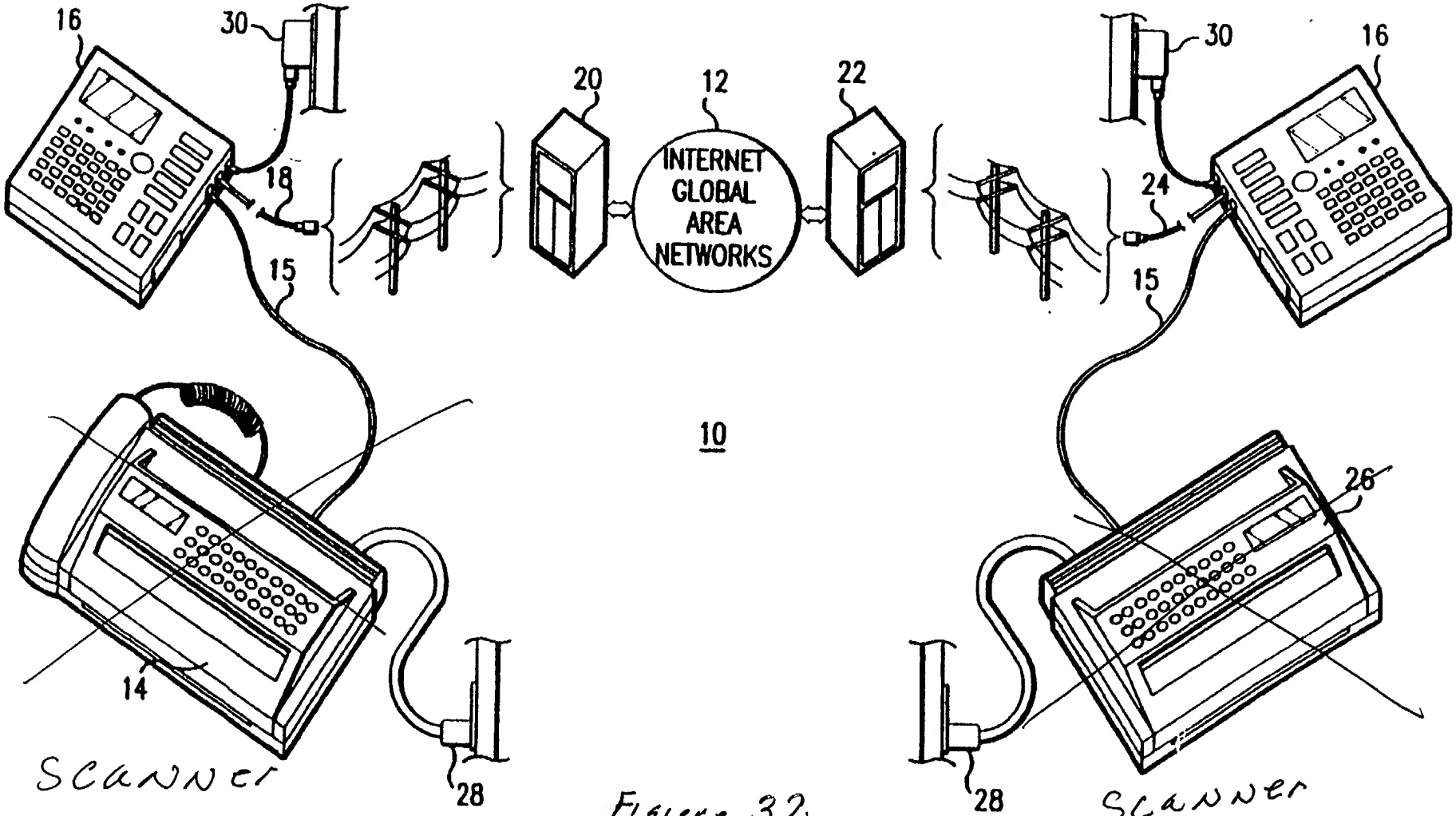
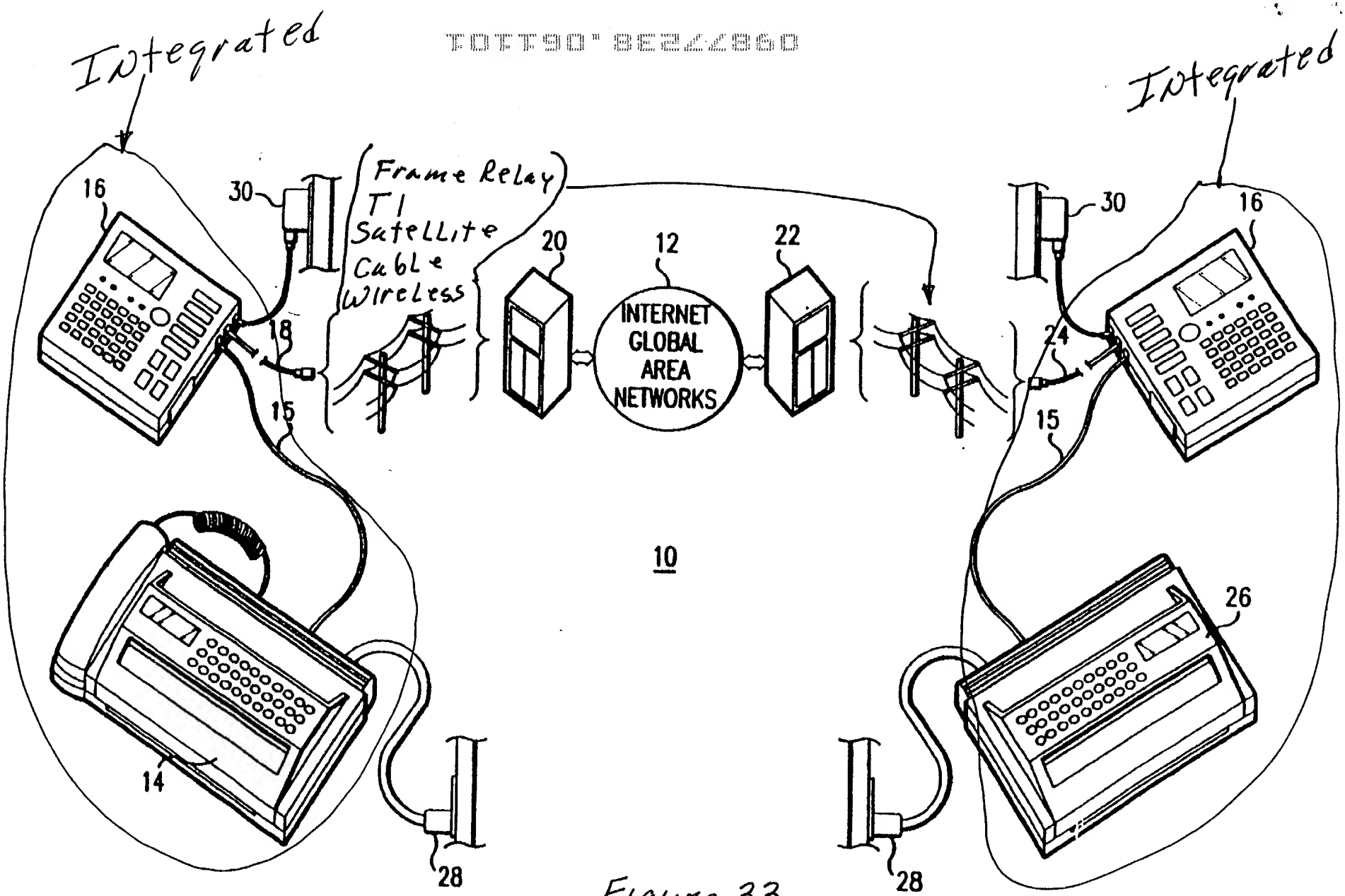


Figure 32


Integrated
Integrated
Frame Relay
T1
Satellite
Cable
Wireless
INTERNET
GLOBAL
AREA
NETWORKS
16
30
18
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12
22
24
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14
26
28
28

Figure 33

TOTT90°8E2Z7860

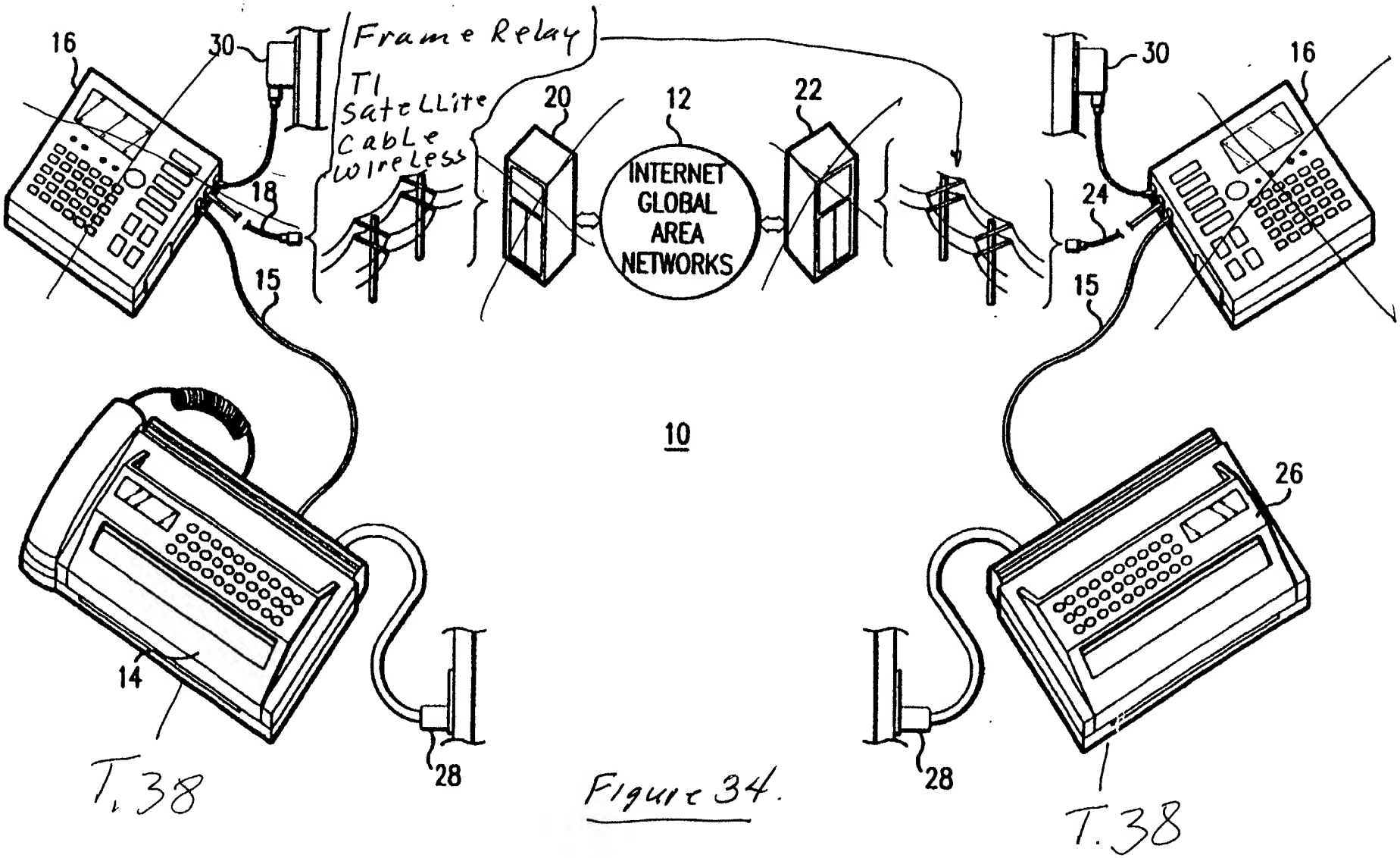
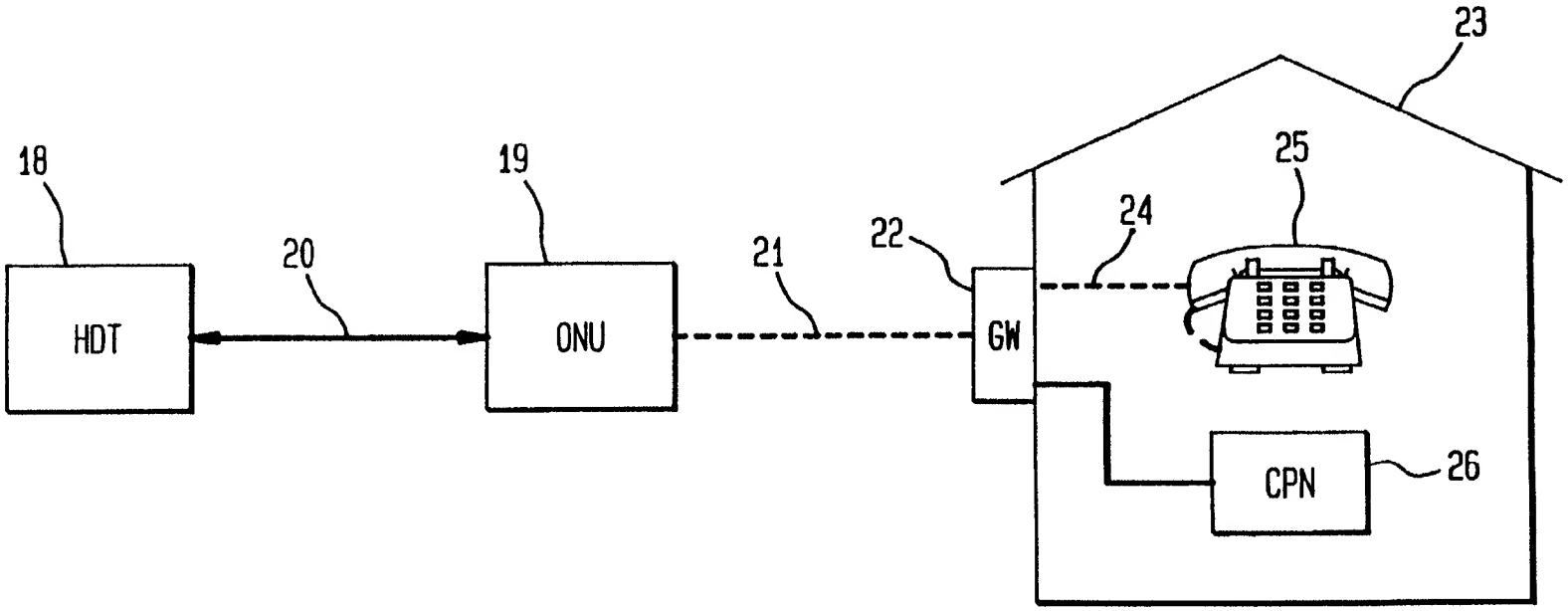


Figure 34.

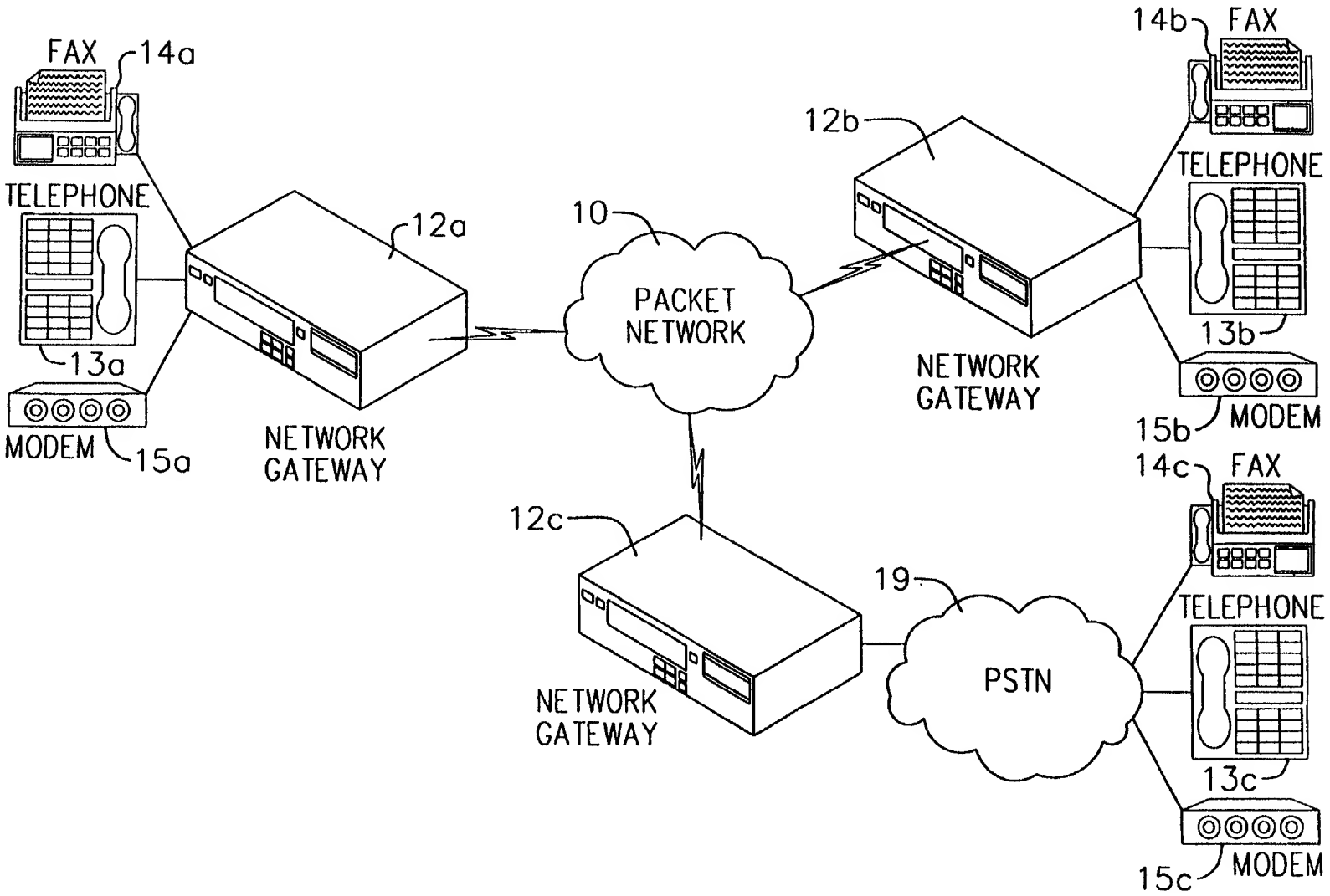
EP 0 877 530 A2

Figure 35



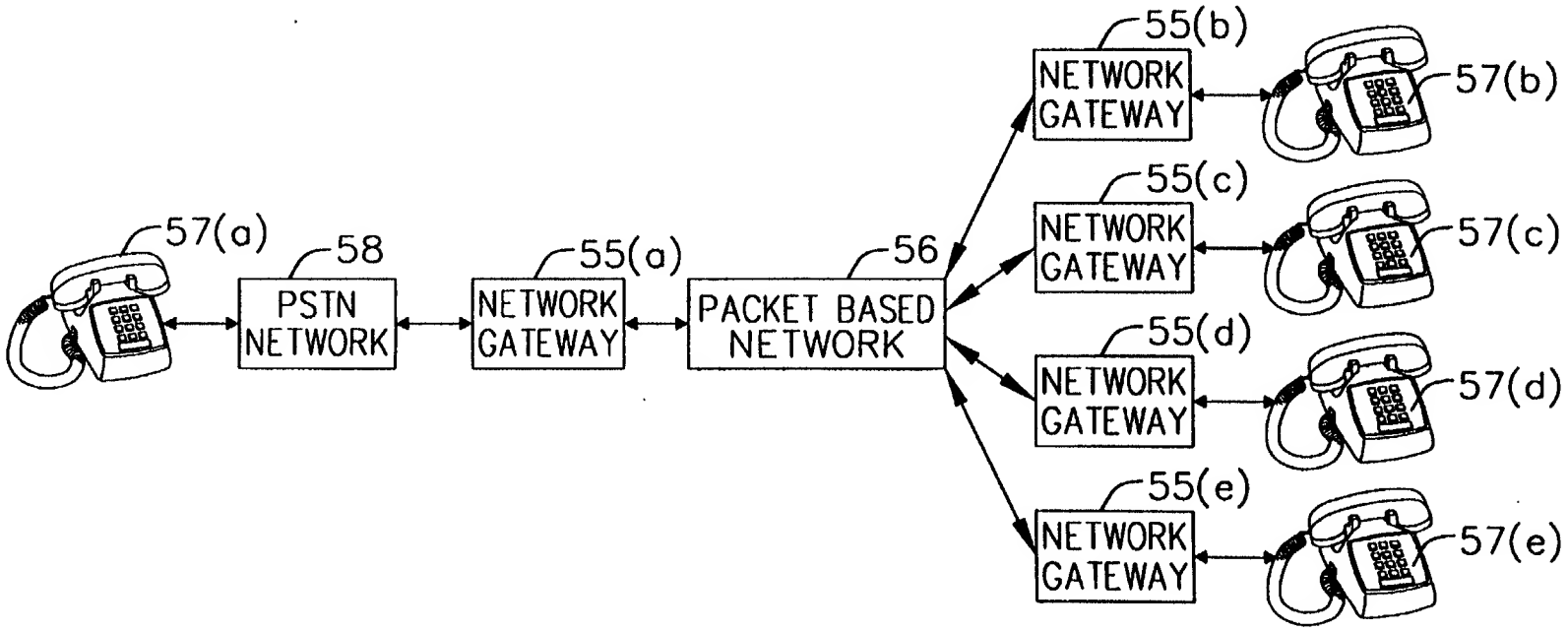
TOTT90" 9E2Z7860

Figure 36



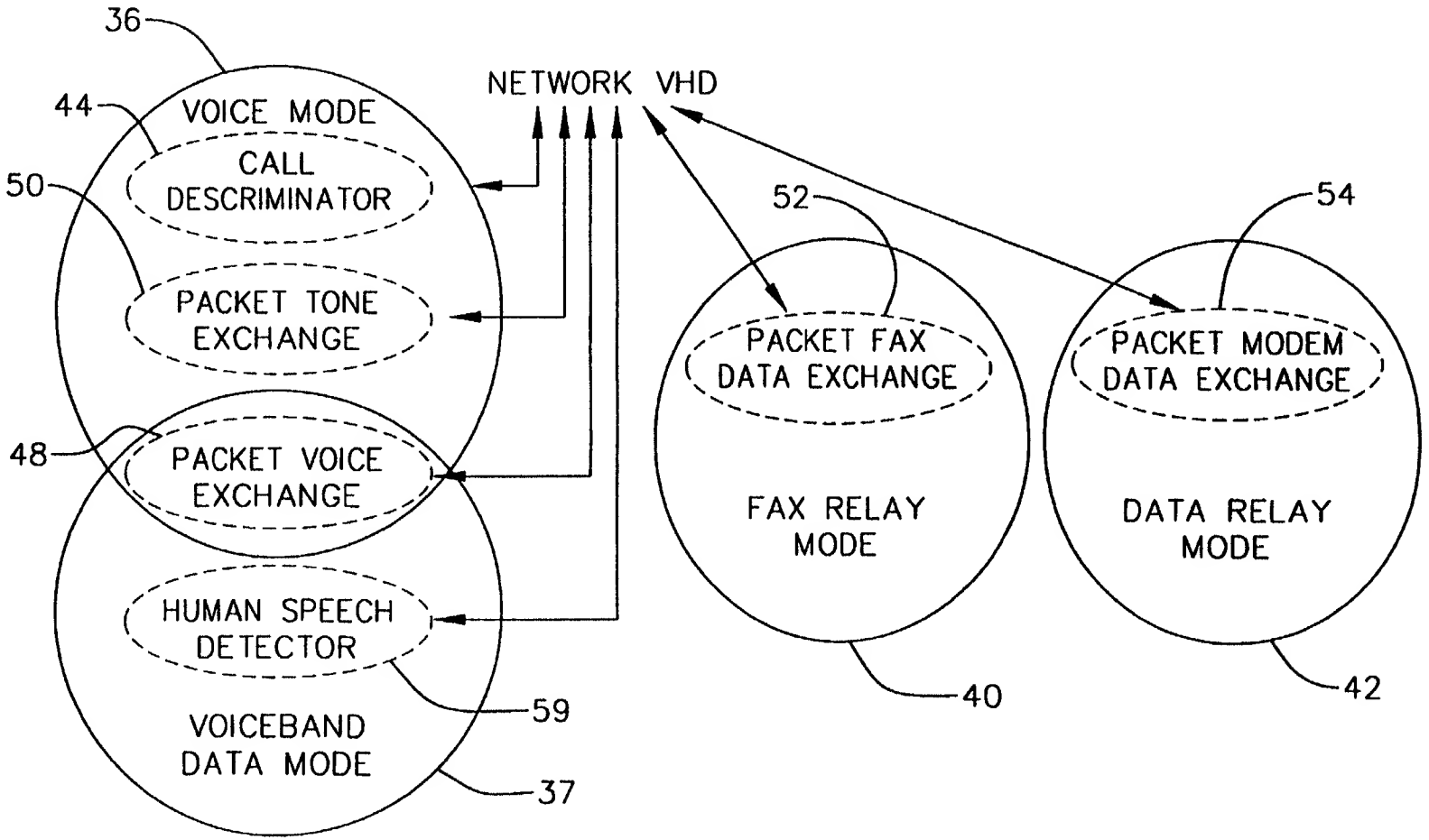
TOTT90" 8E2Z2860

Figure 37



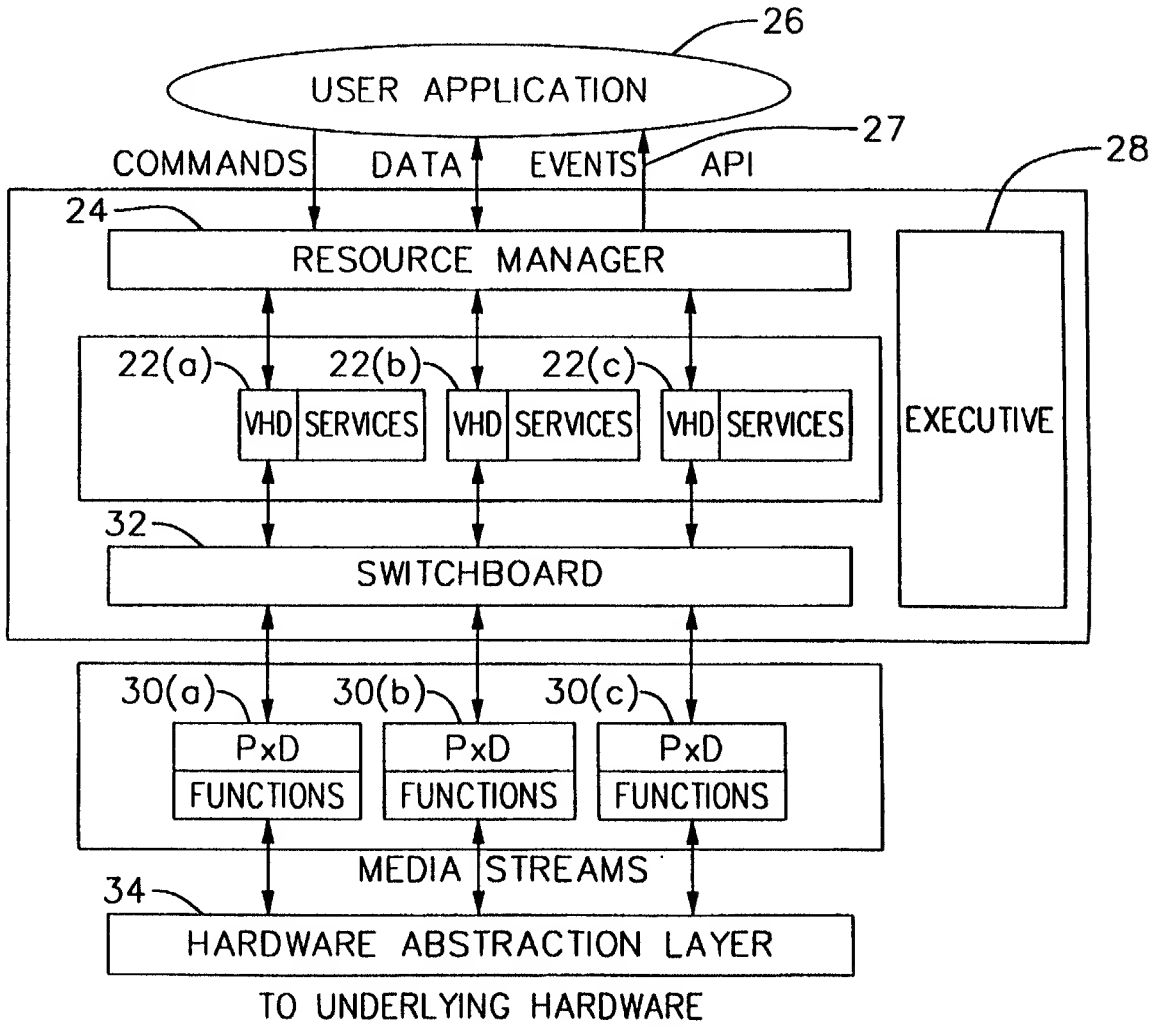
TOTT90"8E2Z2860

Figure 38



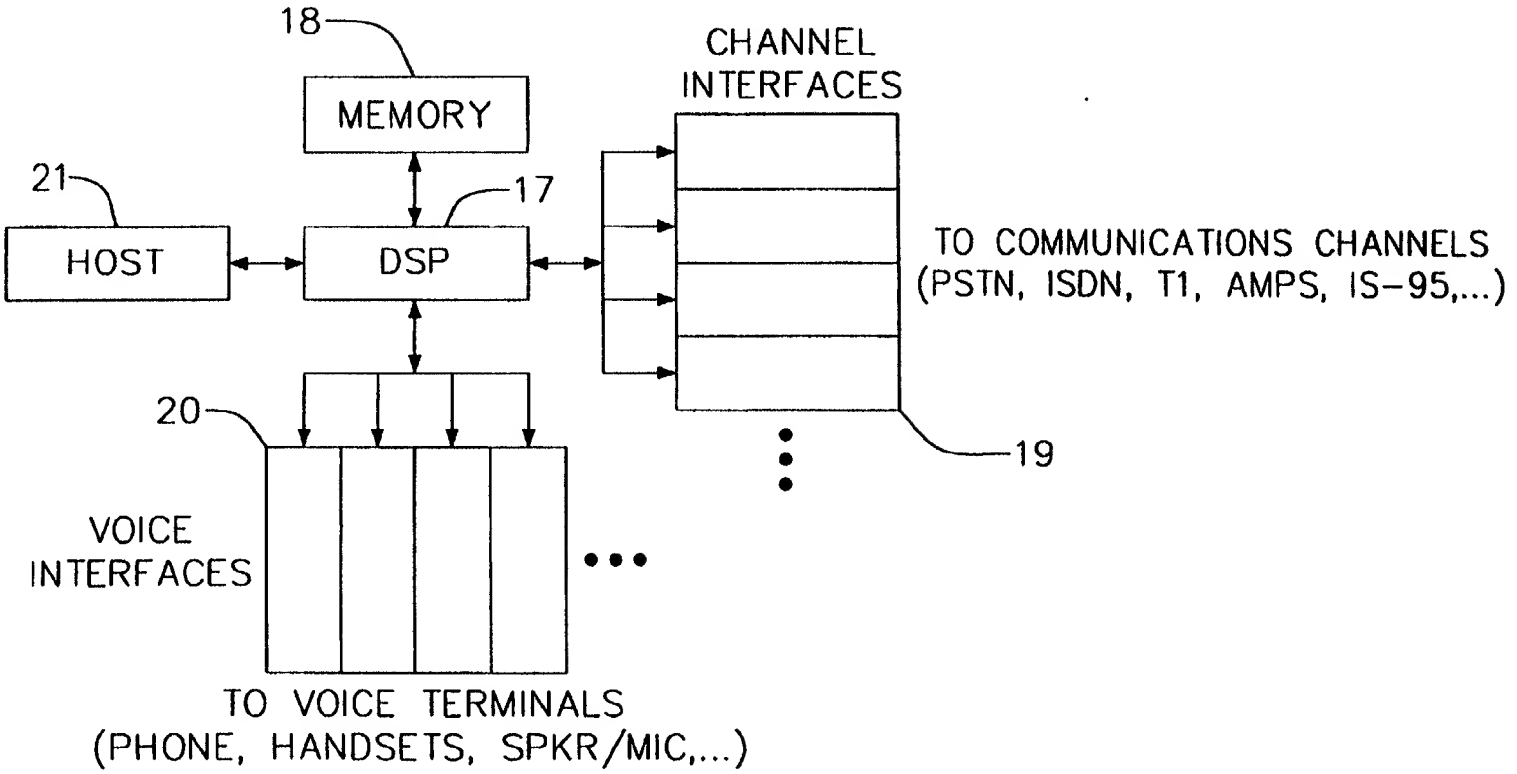
EPO - DG 2

Figure 39



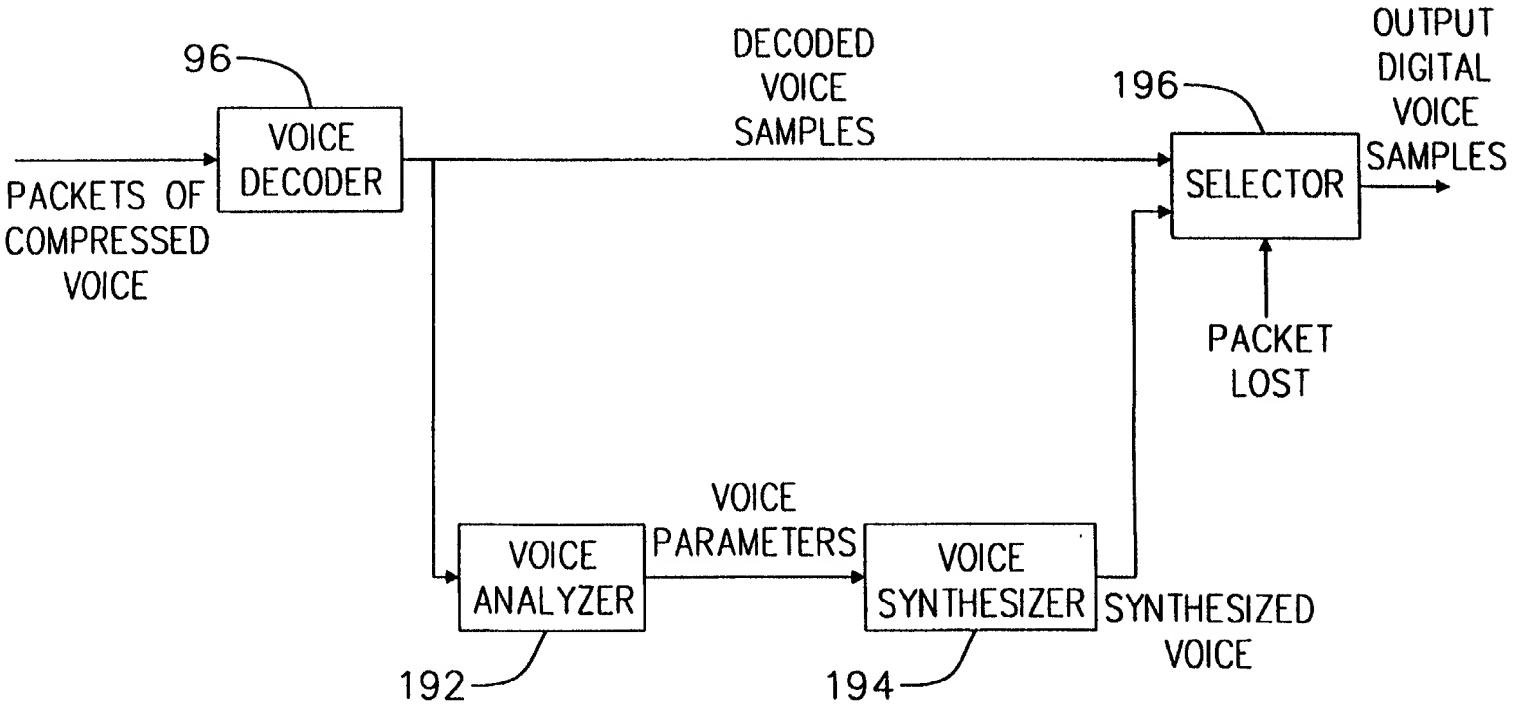
TOT90"8E2L7860

Figure 40



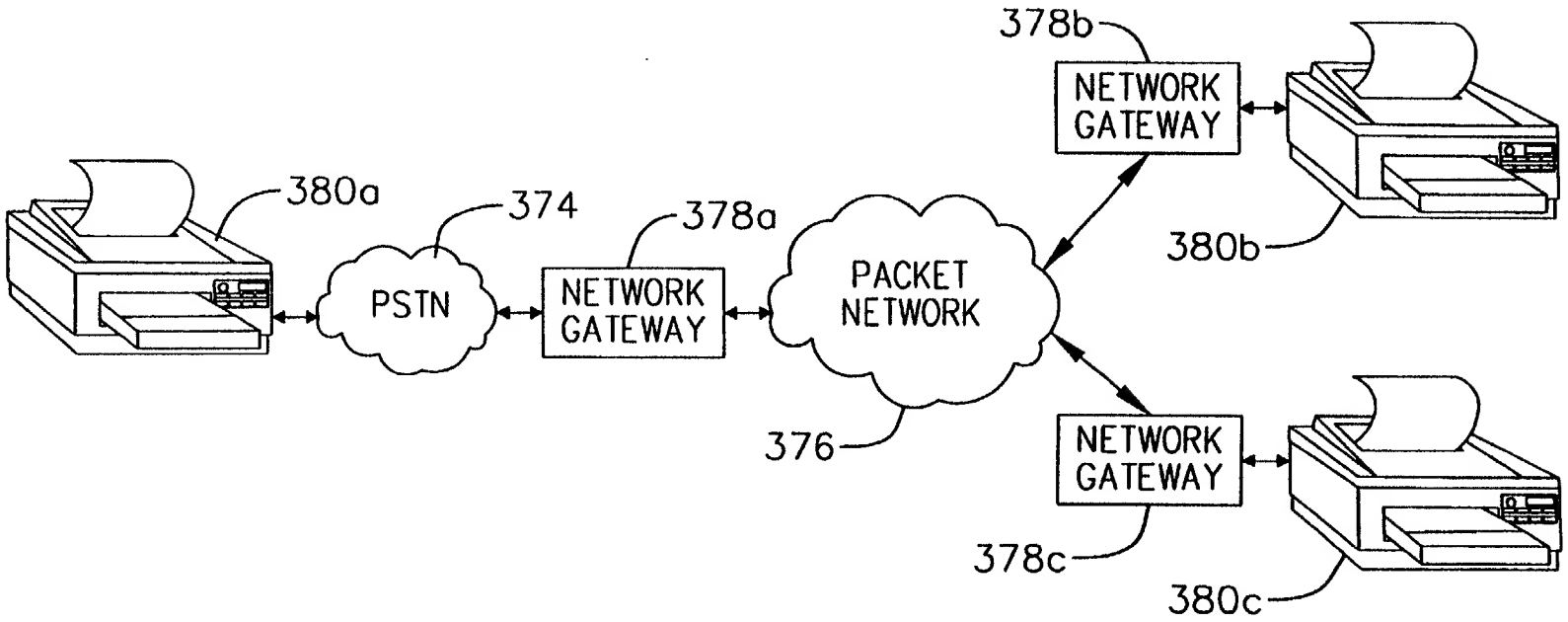
TOTT90" 8E3Z2860

Figure 41



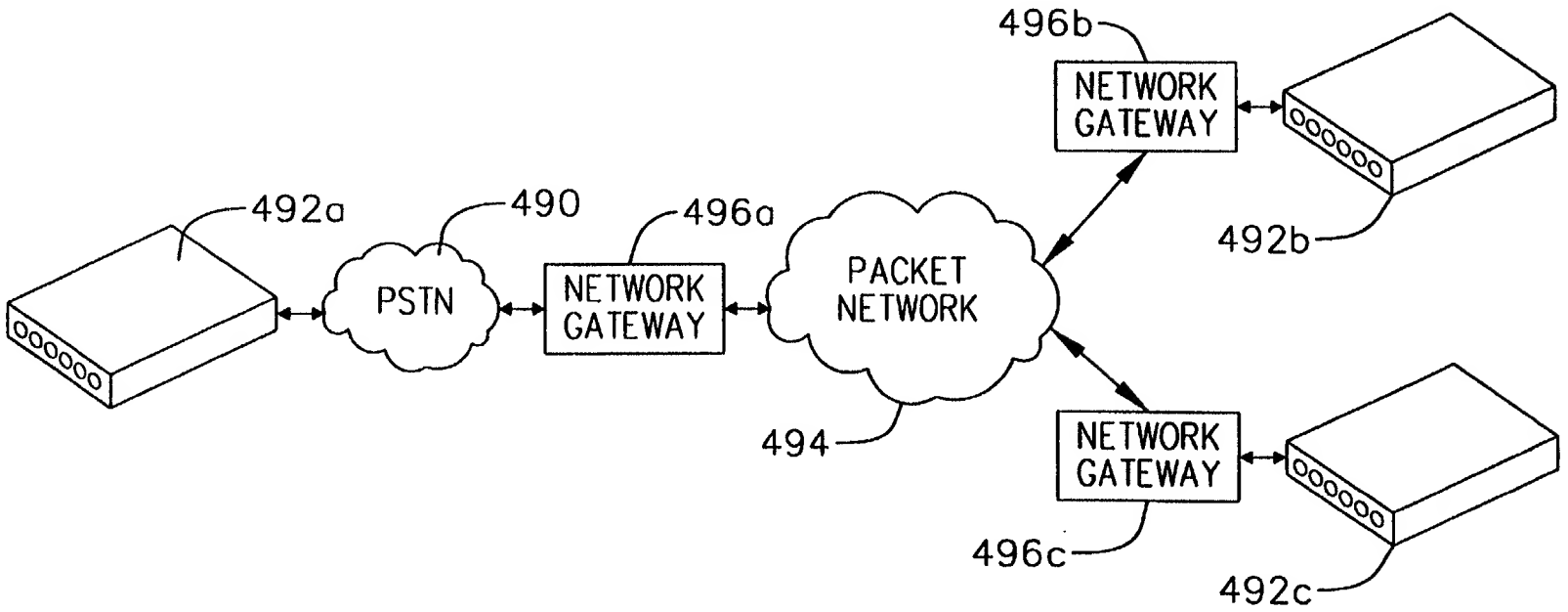
TOTT90"8627860

Figure 42



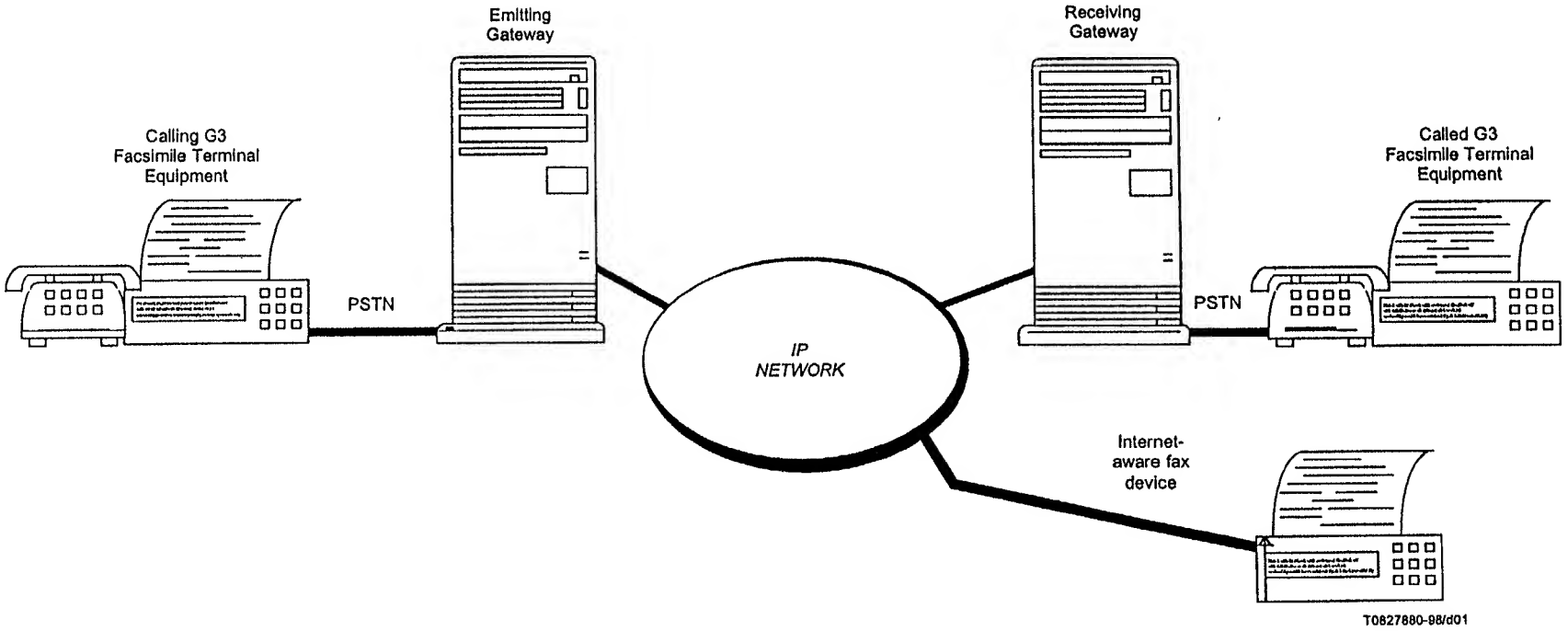
TOFF90"8E2Z7860

Figure 43



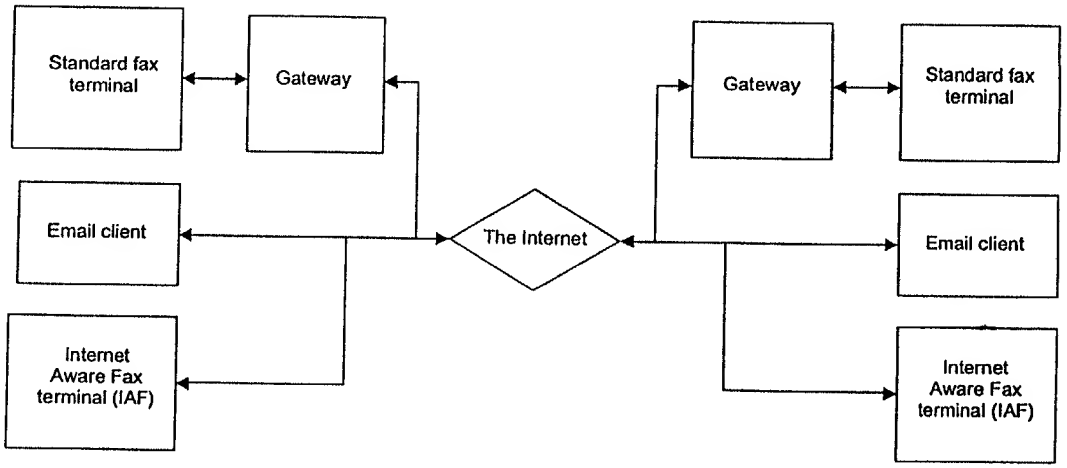
T0T790 8E2Z2860

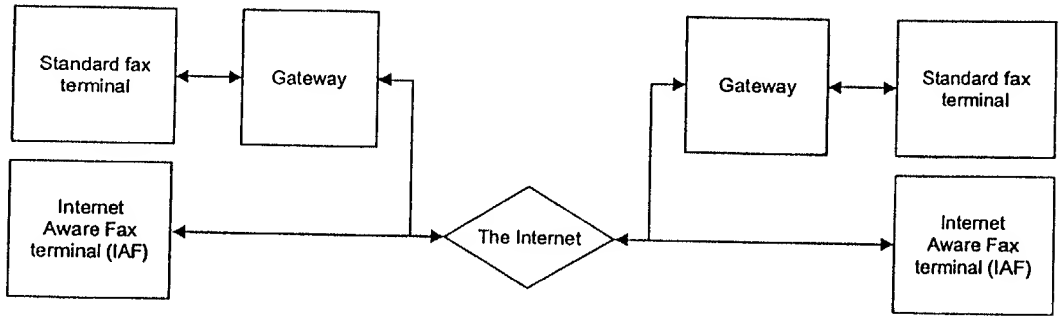
Figure 44



TOTT90"8E2Z2860

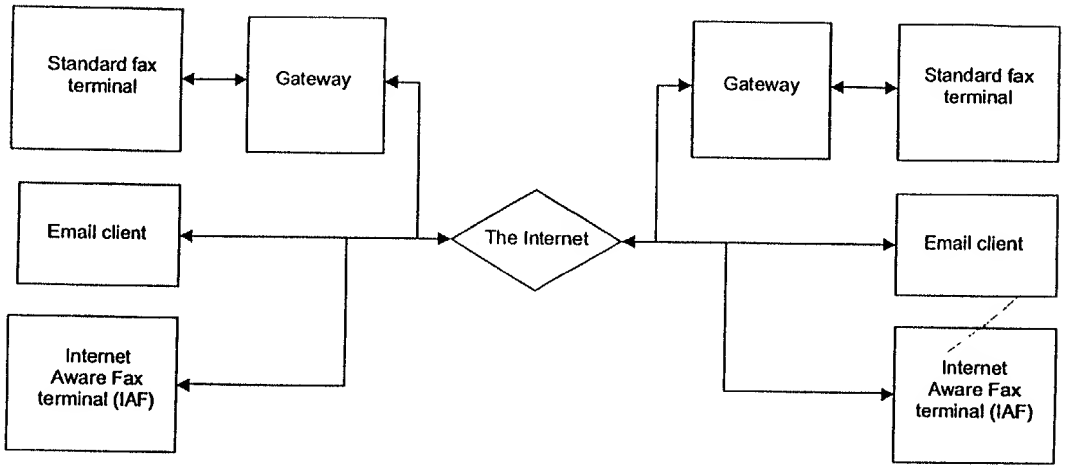
Figure 45

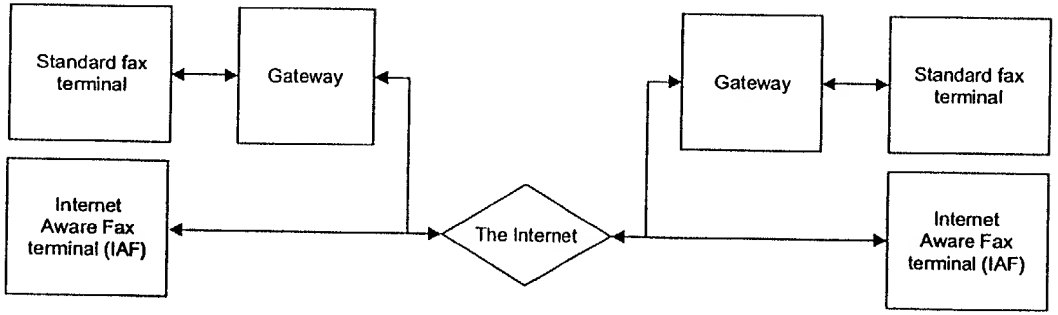




TOTT90" 8E2Z2960

Figure 46





T0T790 8627860

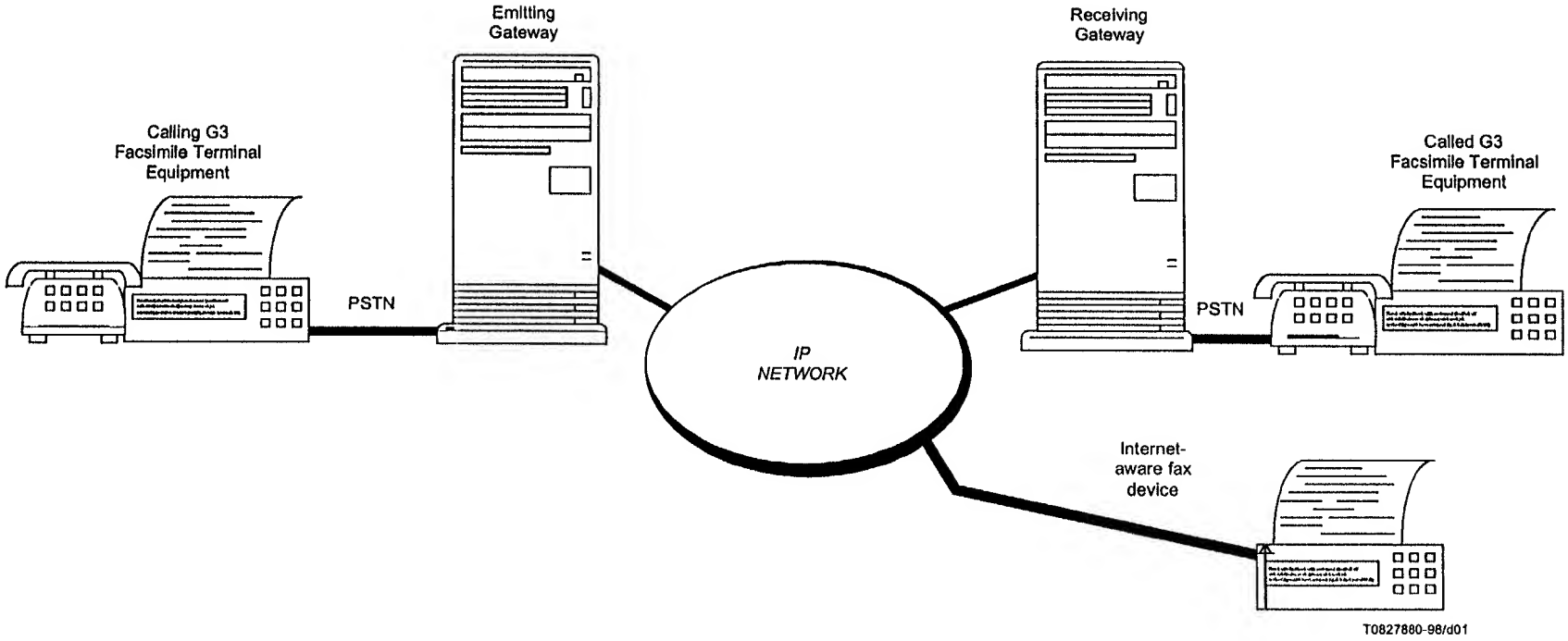



Figure 47